Page Optimization Audit Report

Report created: Sep 2, 2014
Webpage: http://www.businessjunction...-environment-breakfast

Introduction

This report compares your webpage with the top 10 ranking pages for the selected keyword. Based on what brought your competitors to top ranking positions, the report gives advice on optimizing your own pages for top rankings.

Page overall optimization rate in Google.co.uk is 36.2%

Page optimization rate for the keyword **network** is **32.9%**

Title	M.Keywords	M.Description	H1	H2-H6
63.6%	86.5%	96.8%	24.4%	0%
1 keyword	3 keywords	2 keywords	0 keywords	0 keywords
Bold	**Italic**	**Link Anchors**	**Images Alt Texts**	**Body**
0%	0%	0%	0%	0%
0 keywords	0 keywords	0 keywords	0 keywords	0 keywords

Total number of keyword repetitions is **6**

Prominence is **0%**

Page optimization rate for the keyword **networks** is **35.9%**

Title	M.Keywords	M.Description	H1	H2-H6
55.9%	50.3%	83.8%	29.5%	20.2%
1 keyword	3 keywords	2 keywords	0 keywords	0 keywords
Bold	**Italic**	**Link Anchors**	**Images Alt Texts**	**Body**
0%	0%	22.8%	0%	0%
0 keywords	0 keywords	0 keywords	0 keywords	0 keywords

Total number of keyword repetitions is **6**

Prominence is **0%**

Page optimization rate for the keyword **business networks** is **39.6%**

Title	M.Keywords	M.Description	H1	H2-H6
70.7%	62.9%	23%	25.5%	24.8%
1 keyword	1 keyword	2 keywords	0 keywords	0 keywords
Bold	**Italic**	**Link Anchors**	**Images Alt Texts**	**Body**
0%	0%	0%	22.7%	0%
0 keywords	0 keywords	0 keywords	0 keywords	0 keywords

Total number of keyword repetitions is **4**

Prominence is **0%**

Title optimization rate is 63.4%

- **Recommendations**

Use approximately **7 words** in your page's title and place your keywords as follows:

"**network**" should be repeated around **2** times
"**networks**" should be used once
"**business networks**" should be repeated around **2** times

Note: *Try to use the word "**networks**" only **2** time(s) in your keyphrases. (See explanation at the bottom of this report*).*

Title optimization rate for the keyword **network** is **63.6%**

Page	Keyword Density	Keyword Count	Words Total
	0% – 50%	0 – 1	1 – 12
www.businessjunction.co.uk...	10%	1	10
en.wikipedia.org/wiki...twork	16.7%	1	6
en.wikipedia.org/wiki...film)	16.7%	1	6
networkonair.com/	0%	0	1
www.imdb.com/title/...074958/	33.3%	1	3
www.network-railcard.co.uk...	50%	1	2
www.networkrail.co.uk/	11.1%	1	9

www.policy-network.net/	33.3%	1	3
www.the-network.com/	8.3%	1	12
www.transitionnetwork.org/	33.3%	1	3
www.webopedia.com/TER...html	25%	1	4
Avg. Competitor	25.3%	1	5

Title optimization rate for the keyword **networks** is **55.9%**

Page	Keyword Density 10% 40%	Keyword Count 1 2	Words Total 4 10
www.businessjunction.co.uk...	10%	1	10
en.wikipedia.org/wiki...twork	16.7%	1	6
en.wikipedia.org/wiki...twork	20%	1	5
en.wikipedia.org/wiki...twork	16.7%	1	6
onlinelibrary.wiley.com/...7	25%	1	4
www.arubanetworks.com/	14.3%	1	7
www.arubanetworks.com/uk/	40%	2	5
www.cartoonnetwork.com/	10%	1	10
www.journals.elsevier.com...	25%	1	4
www.juniper.net/uk/en/	16.7%	1	6
www.webopedia.com/TER...html	25%	1	4
Avg. Competitor	20.9%	1.1	6

Title optimization rate for the keyword **business networks** is **70.7%**

Page	Keyword Density 0% 100%	Keyword Count 0 1	Words Total 2 15
www.businessjunction.co.uk...	20%	1	10
en.wikipedia.org/wiki...rking	0%	0	6
findnetworkingevents.com/	0%	0	10
free-business-networking-events.meetup.com...	0%	0	9
www.biznet-uk.org/	100%	1	2
www.bl.uk/bipc/busnet/	0%	0	5
www.business-network.co.uk...	66.7%	1	3
www.londonchamber.co.uk/...5	0%	0	6
www.prowess.org.uk/wom...orks	25%	1	8
www.theoysterclub.co.uk/	0%	0	15
www2.gre.ac.uk/about...a/home	25%	1	8
Avg. Competitor	54.2%	1	7

Meta description optimization rate is 67.9%

- **Recommendations**

Use approximately **17 words** in your page's meta description and place your keywords as follows:

"**network**" should be repeated around **2** times
"**networks**" should be used once
"**business networks**" should be used once

Note: *Try to use the word "**networks**" only **1** time(s) in your keyphrases. (See explanation at the bottom of this report*).*

Meta description optimization rate for the keyword **network** is **96.8%**

Page	Keyword Density	Keyword Count	Words Total
	0% 20%	0 3	0 33
www.businessjunction.co.uk...	9.5%	2	21
en.wikipedia.org/wiki...twork	0%	0	0
en.wikipedia.org/wiki...film)	0%	0	0
networkonair.com/	20%	1	5
www.imdb.com/title/...074958/	3%	1	33
www.network-railcard.co.uk...	0%	0	0
www.networkrail.co.uk/	6.7%	1	15
www.policy-network.net/	0%	0	3
www.the-network.com/	3.6%	1	28
www.transitionnetwork.org/	0%	0	0
www.webopedia.com/TER...html	13.6%	3	22
Avg. Competitor	9.4%	1.4	18

Meta description optimization rate for the keyword **networks** is **83.8%**

Page	Keyword Density	Keyword Count	Words Total
	0% 13.6%	0 3	0 37
www.businessjunction.co.uk...	9.5%	2	21
en.wikipedia.org/wiki...twork	0%	0	0
en.wikipedia.org/wiki...twork	0%	0	0
en.wikipedia.org/wiki...twork	0%	0	0
onlinelibrary.wiley.com/...7	0%	0	0
www.arubanetworks.com/	5.6%	1	18
www.arubanetworks.com/uk/	0%	0	23
www.cartoonnetwork.com/	2.7%	1	37
www.journals.elsevier.com...	4.8%	1	21
www.juniper.net/uk/en/	9.5%	2	21
www.webopedia.com/TER...html	13.6%	3	22
Avg. Competitor	7.2%	1.6	24

Meta description optimization rate for the keyword **business networks** is **23%**

Page	Keyword Density	Keyword Count	Words Total
	0% 19%	0 2	0 23
www.businessjunction.co.uk...	19%	2	21
en.wikipedia.org/wiki...rking	0%	0	0
findnetworkingevents.com/	0%	0	14
free-business-networking-events.meetup.com...	0%	0	11
www.biznet-uk.org/	0%	0	0
www.bl.uk/bipc/busnet/	0%	0	23
www.business-network.co.uk...	0%	0	0
www.londonchamber.co.uk/...5	0%	0	0
www.prowess.org.uk/wom...orks	13.3%	1	15

www.theoysterclub.co.uk/	0%	0	23
www2.gre.ac.uk/about...a/home	0%	0	0
Avg. Competitor	13.3%	1	17

Meta keywords tag optimization rate is 66.5%

- **Recommendations**

Use approximately **20 words** in your page's meta keywords tag and place your keywords as follows:

"**network**" should be repeated around **2** times
"**networks**" should be repeated around **2** times
"**business networks**" should be used once

Note: *Try to use the word "**networks**" only **2** time(s) in your keyphrases. (See explanation at the bottom of this report*).*

Meta keywords tag optimization rate for the keyword **network** is **86.5%**

Page	Keyword Density	Keyword Count	Words Total
	0% – 15.4%	0 – 3	0 – 67
www.businessjunction.co.uk...	8.1%	3	37
en.wikipedia.org/wiki...twork	0%	0	0
en.wikipedia.org/wiki...film)	0%	0	0
networkonair.com/	0%	0	0
www.imdb.com/title/...074958/	0%	0	11
www.network-railcard.co.uk...	0%	0	0
www.networkrail.co.uk/	4.5%	3	67
www.policy-network.net/	0%	0	2
www.the-network.com/	0%	0	5
www.transitionnetwork.org/	0%	0	0
www.webopedia.com/TER...html	15.4%	2	13
Avg. Competitor	9.9%	2.5	20

Meta keywords tag optimization rate for the keyword **networks** is **50.3%**

Page	Keyword Density	Keyword Count	Words Total
	0% – 15.4%	0 – 3	0 – 37
www.businessjunction.co.uk...	8.1%	3	37
en.wikipedia.org/wiki...twork	0%	0	0
en.wikipedia.org/wiki...twork	0%	0	0
en.wikipedia.org/wiki...twork	0%	0	0
onlinelibrary.wiley.com/...7	0%	0	0
www.arubanetworks.com/	9.1%	1	11
www.arubanetworks.com/uk/	0%	0	0
www.cartoonnetwork.com/	9.1%	1	11
www.journals.elsevier.com...	0%	0	0
www.juniper.net/uk/en/	9.1%	2	22
www.webopedia.com/TER...html	15.4%	2	13
Avg. Competitor	10.7%	1.5	14

Meta keywords tag optimization rate for the keyword **business networks** is **62.9%**

Page	Keyword Density	Keyword Count	Words Total
	0% 11.8%	0 1	0 130
www.businessjunction.co.uk...	5.4%	1	37
en.wikipedia.org/wiki...rking	0%	0	0
findnetworkingevents.com/	0%	0	22
free-business-networking-events.meetup.com...	0%	0	10
www.biznet-uk.org/	0%	0	0
www.bl.uk/bipc/busnet/	7.7%	1	26
www.business-network.co.uk...	0%	0	0
www.londonchamber.co.uk/...5	0%	0	5
www.prowess.org.uk/wom...orks	11.8%	1	17
www.theoysterclub.co.uk/	0%	0	130
www2.gre.ac.uk/about...a/home	0%	0	0
Avg. Competitor	9.7%	1	35

H1 headings optimization rate is **26.5%**

- **Recommendations**

Use approximately **2** H1 headings on your page, so that each heading includes **4** words on average. Place your keywords in H1 headings as follows:

"**network**" should be repeated around **2** times
"**networks**" should be repeated around **3** times
"**business networks**" should be used once

H1 headings optimization rate for the keyword **network** is **24.4%**

Page	Keyword Density	Keyword Count	Words Total	H1 headings Total
	0% 100%	0 1	0 17	1 8
www.businessjunction.co.uk...	0%	0	3	1
en.wikipedia.org/wiki...twork	50%	1	2	1
en.wikipedia.org/wiki...film)	50%	1	2	1
networkonair.com/	0%	0	16	8
www.imdb.com/title/...074958/	50%	1	2	1
www.network-railcard.co.uk...	50%	1	2	1
www.networkrail.co.uk/	11.1%	1	9	1
www.policy-network.net/	0%	0	17	5
www.the-network.com/	0%	0	0	1
www.transitionnetwork.org/	10%	1	10	5
www.webopedia.com/TER...html	100%	1	1	1
Avg. Competitor	45.9%	1	7	3

H1 headings optimization rate for the keyword **networks** is **29.5%**

Page	Keyword Density	Keyword Count	Words Total	H1 headings Total
	0% 100%	0 1	0 15	0 2
www.businessjunction.co.uk...	0%	0	3	1
en.wikipedia.org/wiki...twork	50%	1	2	1
en.wikipedia.org/wiki...twork	100%	1	1	1
en.wikipedia.org/wiki...twork	50%	1	2	1

onlinelibrary.wiley.com/...7	100%	1	1	1
www.arubanetworks.com/	6.7%	1	15	1
www.arubanetworks.com/uk/	33.3%	1	3	2
www.cartoonnetwork.com/	50%	1	2	1
www.journals.elsevier.com...	50%	1	2	1
www.juniper.net/uk/en/	0%	0	0	0
www.webopedia.com/TER...html	100%	1	1	1
Avg. Competitor	60%	1	3	1

H1 headings optimization rate for the keyword **business networks** is **25.5%**

Page	Keyword Density	Keyword Count	Words Total	H1 headings Total
	0% 50%	0 1	0 17	0 2
www.businessjunction.co.uk...	0%	0	3	1
en.wikipedia.org/wiki...rking	0%	0	2	1
findnetworkingevents.com/	0%	0	5	1
free-business-networking-events.meetup.com...	0%	0	17	2
www.biznet-uk.org/	0%	0	0	1
www.bl.uk/bipc/busnet/	0%	0	5	1
www.business-network.co.uk...	0%	0	2	1
www.londonchamber.co.uk/...5	0%	0	0	0
www.prowess.org.uk/wom...orks	50%	1	4	1
www.theoysterclub.co.uk/	0%	0	3	1
www2.gre.ac.uk/about...a/home	0%	0	0	0
Avg. Competitor	50%	1	5	1

H2-H6 headings optimization rate is 15%

- **Recommendations**

Use approximately **37** H2-H6 headings on your page, so that each heading includes **4** words on average. Place your keywords in H2-H6 headings as follows:

"**network**" should be repeated around **6** times
"**networks**" should be repeated around **9** times
"**business networks**" should be repeated around **7** times

H2-H6 headings optimization rate for the keyword **network** is **0%**

Page	Keyword Density	Keyword Count	Words Total	H2-H6 headings Total
	0% 9.7%	0 14	5 1847	1 242
www.businessjunction.co.uk...	0%	0	5	1
en.wikipedia.org/wiki...twork	9.7%	14	145	59
en.wikipedia.org/wiki...film)	0%	0	53	26
networkonair.com/	0%	0	139	51
www.imdb.com/title/...074958/	0%	0	122	69
www.network-railcard.co.uk...	6.9%	2	29	6
www.networkrail.co.uk/	0%	0	13	8
www.policy-network.net/	0.1%	1	1847	242

www.the-network.com/	3.2%	1	31	5
www.transitionnetwork.org/	1%	1	101	23
www.webopedia.com/TER...html	5.6%	1	18	6
Avg. Competitor	4.4%	3.3	250	50

H2-H6 headings optimization rate for the keyword **networks** is **20.2%**

Page	Keyword Density	Keyword Count	Words Total	H2-H6 headings Total
	0% 9.7%	0 14	0 145	0 59
www.businessjunction.co.uk...	0%	0	5	1
en.wikipedia.org/wiki...twork	9.7%	14	145	59
en.wikipedia.org/wiki...twork	0%	0	54	24
en.wikipedia.org/wiki...twork	2.5%	3	121	48
onlinelibrary.wiley.com/...7	6.9%	4	58	16
www.arubanetworks.com/	0%	0	30	13
www.arubanetworks.com/uk/	0%	0	17	6
www.cartoonnetwork.com/	0%	0	0	0
www.journals.elsevier.com...	0%	0	11	2
www.juniper.net/uk/en/	0%	0	46	30
www.webopedia.com/TER...html	5.6%	1	18	6
Avg. Competitor	6.1%	5.5	56	23

H2-H6 headings optimization rate for the keyword **business networks** is **24.8%**

Page	Keyword Density	Keyword Count	Words Total	H2-H6 headings Total
	0% 20%	0 17	3 743	1 200
www.businessjunction.co.uk...	0%	0	5	1
en.wikipedia.org/wiki...rking	0%	0	31	18
findnetworkingevents.com/	3.3%	4	241	69
free-business-networking-events.meetup.com...	0.5%	2	743	200
www.biznet-uk.org/	20%	1	10	5
www.bl.uk/bipc/busnet/	8.7%	1	23	7
www.business-network.co.uk...	18.7%	17	182	24
www.londonchamber.co.uk/...5	0%	0	56	25
www.prowess.org.uk/wom...orks	9.5%	1	21	11
www.theoysterclub.co.uk/	0%	0	7	4
www2.gre.ac.uk/about...a/home	0%	0	3	1
Avg. Competitor	10.1%	4.3	132	36

Bold text optimization rate is **0%**

- **Recommendations**

Use approximately **35** bold text blocks on your page, so that each block includes **2** words on average. Place your keywords in bold text blocks as follows:

"**network**" should be repeated around **8** times
"**networks**" should be repeated around **14** times
"**business networks**" should be repeated around **3** times

Bold text optimization rate for the keyword **network** is **0%**

Page	Keyword Density	Keyword Count	Words Total	Bold text Total
	0% 25%	0 5	0 435	0 213
www.businessjunction.co.uk...	0%	0	0	0
en.wikipedia.org/wiki...twork	10.3%	3	29	54
en.wikipedia.org/wiki...film)	10.7%	3	28	28
networkonair.com/	25%	1	4	1
www.imdb.com/title/...074958/	1%	1	100	50
www.network-railcard.co.uk...	10%	1	10	5
www.networkrail.co.uk/	1.5%	1	66	8
www.policy-network.net/	0%	0	435	213
www.the-network.com/	7.1%	1	14	8
www.transitionnetwork.org/	0%	0	31	13
www.webopedia.com/TER...html	25%	5	20	18
Avg. Competitor	11.3%	2	74	40

Bold text optimization rate for the keyword **networks** is **0%**

Page	Keyword Density	Keyword Count	Words Total	Bold text Total
	0% 50%	0 7	0 109	0 100
www.businessjunction.co.uk...	0%	0	0	0
en.wikipedia.org/wiki...twork	10.3%	3	29	54
en.wikipedia.org/wiki...twork	50%	2	4	4
en.wikipedia.org/wiki...twork	13.2%	7	53	100
onlinelibrary.wiley.com/...7	5.5%	6	109	18
www.arubanetworks.com/	0%	0	0	0
www.arubanetworks.com/uk/	0%	0	0	0
www.cartoonnetwork.com/	0%	0	0	0
www.journals.elsevier.com...	10.6%	5	47	29
www.juniper.net/uk/en/	0%	0	0	0
www.webopedia.com/TER...html	25%	5	20	18
Avg. Competitor	19.1%	4.7	44	37

Bold text optimization rate for the keyword **business networks** is **0%**

Page	Keyword Density	Keyword Count	Words Total	Bold text Total
	0% 8.1%	0 4	0 529	0 134
www.businessjunction.co.uk...	0%	0	0	0
en.wikipedia.org/wiki...rking	0%	0	16	4
findnetworkingevents.com/	0%	0	3	2
free-business-networking-events.meetup.com...	0%	0	0	0
www.biznet-uk.org/	0%	0	0	0
www.bl.uk/bipc/busnet/	0%	0	8	5
www.business-network.co.uk...	0%	0	0	0
www.londonchamber.co.uk/...5	0%	0	529	134

www.prowess.org.uk/wom...orks	8.1%	4	99	30
www.theoysterclub.co.uk/	0%	0	24	6
www2.gre.ac.uk/about...a/home	0%	0	4	1
Avg. Competitor	8.1%	4	98	26

Italic text optimization rate is **0%**

- **Recommendations**

Use approximately **19** italic text blocks on your page, so that each block includes **4** words on average. Place your keywords in italic text blocks as follows:

"**network**" should be repeated around **4** times
"**networks**" should be repeated around **18** times
"**business networks**" should be repeated around **4** times

Italic text optimization rate for the keyword **network** is **0%**

Page	Keyword Density	Keyword Count	Words Total	Italic text Total
	0% 7.7%	0 18	0 249	0 95
www.businessjunction.co.uk...	0%	0	0	0
en.wikipedia.org/wiki...twork	3.1%	4	131	47
en.wikipedia.org/wiki...film)	7.2%	18	249	95
networkonair.com/	0%	0	6	2
www.imdb.com/title/...074958/	0%	0	6	1
www.network-railcard.co.uk...	0%	0	0	0
www.networkrail.co.uk/	0%	0	0	0
www.policy-network.net/	0%	0	0	0
www.the-network.com/	0%	0	0	0
www.transitionnetwork.org/	0%	0	0	0
www.webopedia.com/TER...html	7.7%	1	13	7
Avg. Competitor	6%	7.7	81	30

Italic text optimization rate for the keyword **networks** is **0%**

Page	Keyword Density	Keyword Count	Words Total	Italic text Total
	0% 55.6%	0 25	0 389	0 99
www.businessjunction.co.uk...	0%	0	0	0
en.wikipedia.org/wiki...twork	3.1%	4	131	47
en.wikipedia.org/wiki...twork	55.6%	5	9	8
en.wikipedia.org/wiki...twork	6.4%	25	389	99
onlinelibrary.wiley.com/...7	25%	3	12	7
www.arubanetworks.com/	0%	0	0	0
www.arubanetworks.com/uk/	0%	0	0	0
www.cartoonnetwork.com/	0%	0	0	0
www.journals.elsevier.com...	50%	2	4	2
www.juniper.net/uk/en/	0%	0	0	0
www.webopedia.com/TER...html	7.7%	1	13	7
Avg. Competitor	24.6%	6.7	93	28

Italic text optimization rate for the keyword **business networks** is **0%**

Page	Keyword Density	Keyword Count	Words Total	Italic text Total
	0% 20%	0 1	0 116	0 20
www.businessjunction.co.uk...	0%	0	0	0
en.wikipedia.org/wiki...rking	0%	0	19	6
findnetworkingevents.com/	20%	1	10	3
free-business-networking-events.meetup.com...	0%	0	0	6
www.biznet-uk.org/	0%	0	0	1
www.bl.uk/bipc/busnet/	0%	0	0	0
www.business-network.co.uk...	2.9%	1	68	20
www.londonchamber.co.uk/...5	0%	0	116	2
www.prowess.org.uk/wom...orks	0%	0	0	4
www.theoysterclub.co.uk/	0%	0	0	0
www2.gre.ac.uk/about...a/home	0%	0	6	1
Avg. Competitor	11.5%	1	44	5

Link anchor text optimization rate is **7.6%**

- **Recommendations**

Place approximately **291** text links on your page. Ideally, anchor text of each link should include **2** words on average. Use your keywords in link anchor texts as follows:

"**network**" should be repeated around **25** times
"**networks**" should be repeated around **26** times
"**business networks**" should be repeated around **21** times

Link anchor text optimization rate for the keyword **network** is **0%**

Page	Keyword Density	Keyword Count	Words Total	Link anchor text Total
	0% 14.9%	0 96	45 2883	21 1695
www.businessjunction.co.uk...	0%	0	45	34
en.wikipedia.org/wiki...twork	3.3%	96	2883	1695
en.wikipedia.org/wiki...film)	1.5%	15	1001	419
networkonair.com/	0%	0	563	297
www.imdb.com/title/...074958/	1.2%	13	1087	507
www.network-railcard.co.uk...	14.9%	7	47	21
www.networkrail.co.uk/	1.5%	11	747	291
www.policy-network.net/	0.1%	1	1905	276
www.the-network.com/	2%	2	101	52
www.transitionnetwork.org/	1.3%	7	531	196
www.webopedia.com/TER...html	10.3%	27	261	90
Avg. Competitor	4%	19.9	913	384

Link anchor text optimization rate for the keyword **networks** is **22.8%**

Page	Keyword Density	Keyword Count	Words Total	Link anchor text Total

	0% 10.3%	0 96	40 2883	19 1695
www.businessjunction.co.uk...	0%	0	45	34
en.wikipedia.org/wiki...twork	3.3%	96	2883	1695
en.wikipedia.org/wiki...twork	9%	25	279	152
en.wikipedia.org/wiki...twork	4.3%	65	1500	970
onlinelibrary.wiley.com/...7	4.3%	10	230	81
www.arubanetworks.com/	1.7%	4	230	122
www.arubanetworks.com/uk/	2.5%	1	40	19
www.cartoonnetwork.com/	0.4%	2	543	191
www.journals.elsevier.com...	1.8%	14	786	244
www.juniper.net/uk/en/	4%	12	298	171
www.webopedia.com/TER...html	10.3%	27	261	90
Avg. Competitor	4.2%	25.6	705	374

Link anchor text optimization rate for the keyword **business networks** is **0%**

Page	Keyword Density	Keyword Count	Words Total	Link anchor text Total
	0% 25.6%	0 15	45 647	18 296
www.businessjunction.co.uk...	0%	0	45	34
en.wikipedia.org/wiki...rking	0%	0	279	129
findnetworkingevents.com/	0.7%	2	549	258
free-business-networking-events.meetup.com...	0%	0	133	175
www.biznet-uk.org/	3.9%	4	203	96
www.bl.uk/bipc/busnet/	1.8%	1	112	41
www.business-network.co.uk...	25.6%	15	117	48
www.londonchamber.co.uk/...5	0%	0	135	53
www.prowess.org.uk/wom...orks	1.5%	5	647	296
www.theoysterclub.co.uk/	0%	0	95	25
www2.gre.ac.uk/about...a/home	0%	0	48	18
Avg. Competitor	6.7%	5.4	232	114

Image alt attributes optimization rate is 7.6%

- **Recommendations**

You can place approximately **24** images with alt attributes on your page. Ideally, each image alt attribute should include **2** words on average. Use your keywords in image alt texts as follows:

"**network**" should be repeated around **3** times
"**networks**" should be repeated around **3** times
"**business networks**" should be used once

Image alt attributes optimization rate for the keyword **network** is **0%**

Page	Keyword Density	Keyword Count	Words Total	Image alt attributes Total
	0% 18.2%	0 7	1 179	7 65
www.businessjunction.co.uk...	0%	0	1	8

en.wikipedia.org/wiki...twork	0%	0	28	23
en.wikipedia.org/wiki...film)	0%	0	6	7
networkonair.com/	0%	0	66	65
www.imdb.com/title/...074958/	4%	7	174	63
www.network-railcard.co.uk...	18.2%	6	33	12
www.networkrail.co.uk/	3.3%	1	30	10
www.policy-network.net/	2.2%	4	179	49
www.the-network.com/	9.5%	2	21	12
www.transitionnetwork.org/	2.2%	1	46	25
www.webopedia.com/TER...html	6.2%	1	16	10
Avg. Competitor	6.5%	3.1	60	28

Image alt attributes optimization rate for the keyword **networks** is **0%**

Page	Keyword Density	Keyword Count	Words Total	Image alt attributes Total
	0% 8.8%	0 8	1 265	3 104
www.businessjunction.co.uk...	0%	0	1	8
en.wikipedia.org/wiki...twork	0%	0	28	23
en.wikipedia.org/wiki...twork	0%	0	7	5
en.wikipedia.org/wiki...twork	0%	0	10	12
onlinelibrary.wiley.com/...7	8%	2	25	11
www.arubanetworks.com/	0%	0	3	8
www.arubanetworks.com/uk/	0%	0	2	3
www.cartoonnetwork.com/	0.4%	1	265	104
www.journals.elsevier.com...	8.8%	8	91	16
www.juniper.net/uk/en/	5.1%	2	39	25
www.webopedia.com/TER...html	6.2%	1	16	10
Avg. Competitor	5.7%	2.8	49	22

Image alt attributes optimization rate for the keyword **business networks** is **22.7%**

Page	Keyword Density	Keyword Count	Words Total	Image alt attributes Total
	0% 5.3%	0 1	1 161	1 81
www.businessjunction.co.uk...	0%	0	1	8
en.wikipedia.org/wiki...rking	0%	0	7	5
findnetworkingevents.com/	3%	1	67	13
free-business-networking-events.meetup.com...	0%	0	1	1
www.biznet-uk.org/	5.3%	1	38	24
www.bl.uk/bipc/busnet/	0%	0	38	23
www.business-network.co.uk...	0%	0	9	4
www.londonchamber.co.uk/...5	0%	0	148	77
www.prowess.org.uk/wom...orks	0%	0	161	81
www.theoysterclub.co.uk/	0%	0	3	5
www2.gre.ac.uk/about...a/home	0%	0	4	2
Avg. Competitor	4.1%	1	48	24

Body text optimization rate is **0%**

- **Recommendations**

Use approximately **1880 words** in your page's body (bold: 72, italic: 70, links: 624, plain text: 1114) and place your keywords as follows:

"**network**" should be repeated around **37** times (bold: 8, italic: 4, links: 25)
"**networks**" should be repeated around **64** times (bold: 14, italic: 18, links: 26, plain text: 6)
"**business networks**" should be repeated around **28** times (bold: 3, italic: 4, links: 21)

Body text optimization rate for the keyword **network** is **0%**

Page	Keyword Density	Keyword Count	Words Total
	0% 5.5%	0 349	102 10204
www.businessjunction.co.uk...	0%	0	102
en.wikipedia.org/wiki...twork	3.4%	349	10204
en.wikipedia.org/wiki...film)	0.9%	28	3196
networkonair.com/	0.1%	1	1920
www.imdb.com/title/...074958/	0.6%	15	2462
www.network-railcard.co.uk...	4.3%	19	445
www.networkrail.co.uk/	1.2%	13	1059
www.policy-network.net/	0.3%	9	3454
www.the-network.com/	1.2%	7	570
www.transitionnetwork.org/	1.2%	12	996
www.webopedia.com/TER...html	5.5%	37	678
Avg. Competitor	1.9%	49	2498

Body text optimization rate for the keyword **networks** is **0%**

Page	Keyword Density	Keyword Count	Words Total
	0% 6%	0 349	102 10204
www.businessjunction.co.uk...	0%	0	102
en.wikipedia.org/wiki...twork	3.4%	349	10204
en.wikipedia.org/wiki...twork	6%	29	483
en.wikipedia.org/wiki...twork	3.4%	215	6254
onlinelibrary.wiley.com/...7	3.4%	20	594
www.arubanetworks.com/	2%	11	540
www.arubanetworks.com/uk/	3.6%	7	195
www.cartoonnetwork.com/	1.6%	6	370
www.journals.elsevier.com...	1.8%	33	1789
www.juniper.net/uk/en/	3.3%	11	334
www.webopedia.com/TER...html	5.5%	37	678
Avg. Competitor	3.4%	71.8	2144

Body text optimization rate for the keyword **business networks** is **0%**

Page	Keyword Density	Keyword Count	Words Total
	0% 8.4%	0 19	102 2718
www.businessjunction.co.uk...	0%	0	102

en.wikipedia.org/wiki...rking	1.6%	7	890
findnetworkingevents.com/	1.3%	6	898
free-business-networking-events.meetup.com...	0.3%	2	1166
www.biznet-uk.org/	3.6%	7	390
www.bl.uk/bipc/busnet/	1.5%	4	530
www.business-network.co.uk...	8.4%	19	453
www.londonchamber.co.uk/...5	0%	0	2718
www.prowess.org.uk/wom...orks	1.4%	16	2307
www.theoysterclub.co.uk/	0%	0	314
www2.gre.ac.uk/about...a/home	2%	3	298
Avg. Competitor	2.5%	8	996

Title details

10 words in title

Business Junction / Book a Networking Event - **Business Networks** - **Business** Junction

Title of avg.competitor for the keyword **network** consists of 5 words.

Page	Title
en.wikipedia.org/wiki/Computer_network 6 words in title	Computer **network** - Wikipedia, the free encyclopedia
en.wikipedia.org/wiki/Network_(film) 6 words in title	**Network** (film) - Wikipedia, the free encyclopedia
www.imdb.com/title/tt0074958/ 3 words in title	**Network** (1976) - IMDb
www.networkrail.co.uk/ 9 words in title	**Network** Rail - We own and operate Britain's rail infrastructure
networkonair.com/ 1 words in title	Networkonair
www.webopedia.com/TERM/N/network.html 4 words in title	What is **Network**? Webopedia
www.transitionnetwork.org/ 3 words in title	Welcome | Transition **Network**
www.network-railcard.co.uk/ 2 words in title	**Network** Railcard
www.policy-network.net/ 3 words in title	Policy **Network** - Home
www.the-network.com/ 12 words in title	The **Network** - One unique solution, dedicated to international recruitment in 130+ countries

Title of avg.competitor for the keyword **networks** consists of 6 words.

Page	Title
en.wikipedia.org/wiki/Computer_network 6 words in title	Computer **network** - Wikipedia, the free encyclopedia
en.wikipedia.org/wiki/Network 5 words in title	**Network** - Wikipedia, the free encyclopedia
en.wikipedia.org/wiki/Social_network 6 words in title	Social **network** - Wikipedia, the free encyclopedia
www.webopedia.com/TERM/N/network.html 4 words in title	What is **Network**? Webopedia
www.arubanetworks.com/uk/ 5 words in title	Aruba **Networks** EMEA | Aruba **Networks**
www.arubanetworks.com/ 7 words in title	Aruba **Networks** - Enterprise Mobility & Wireless LAN Solutions

onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0037 4 words in title	**Networks** - Wiley Online Library
www.journals.elsevier.com/computer-networks/ 4 words in title	Computer **Networks** - Journal - Elsevier
www.cartoonnetwork.com/ 10 words in title	Cartoon **Network** | Free Online Games, Downloads, Competitions & Videos for Kids
www.juniper.net/uk/en/ 6 words in title	**Network** Security Solutions - Networking Performance Optimization

Title of avg.competitor for the keyword **business networks** consists of 7 words.

Page	Title
www.theoysterclub.co.uk/ 15 words in title	The Oyster Club - **Business** networking events in London - **Business** and social networking in perfect synergy
www.londonchamber.co.uk/lcc_public/article.asp?aid=3915 6 words in title	London Chamber of Commerce and Industry
www.business-network.co.uk/ 3 words in title	The **Business Network**
findnetworkingevents.com/ 10 words in title	FindNetworkingEvents.com - **Business** Networking Events, **Business** Workshops, Seminars and **Business** Shows
free-business-networking-events.meetup.com/cities/g...7/london/ 9 words in title	Free **Business** Networking Events Meetups near London, England - Meetup
en.wikipedia.org/wiki/Business_networking 6 words in title	**Business** networking - Wikipedia, the free encyclopedia
www.bl.uk/bipc/busnet/ 5 words in title	**Business** Networking | Networking Events | BIPC
www.biznet-uk.org/ 2 words in title	**Business Network**
www2.gre.ac.uk/about/schools/business...search/groups/cbna/home 8 words in title	Centre for **Business Network** Analysis | University of Greenwich
www.prowess.org.uk/womens-business-networks 8 words in title	Women's **Business Networks** Listings | Prowess Women in **Business**

Meta description details

21 words in meta description

Book an Event with **Business** Junction & Womens Junction, Londons fastest growing **network** of **business networks** for company marketing opportunities and referrals

Meta description tag of competitors for the keyword **network** consists of 18 words on average.

Page	Meta description
en.wikipedia.org/wiki/Computer_network No meta description	-
en.wikipedia.org/wiki/Network_(film) No meta description	-
www.imdb.com/title/tt0074958/ 33 words in meta description	Directed by Sidney Lumet. With Faye Dunaway, William Holden, Peter Finch, Robert Duvall. A television **network** cynically exploits a deranged former anchor's ravings and revelations about the news media for its own profit.
www.networkrail.co.uk/ 15 words in meta description	**Network** Rail - we own and operate Britain's rail infrastructure. Helping Britain Run Better.
networkonair.com/ 5 words in meta description	All the news from **Network**
www.webopedia.com/TERM/N/network.html 22 words in meta description	A **network** is a group of two or more computer systems linked together. Examples include local-area **networks** (LANs) and wide-area **networks** (WANs).
www.transitionnetwork.org/ No meta description	-
www.network-railcard.co.uk/ 0 words in meta description	-
www.policy-network.net/ 3 words in meta description	Tagging to regions

www.the-network.com/ 28 words in meta description	The **Network** - Global Leader in Online Recruitment: your partner of choice for international recruitment: Offering a unique recruitment solution serving 130+ countries via 1 single point of contact.

Meta description tag of competitors for the keyword **networks** consists of 24 words on average.

Page	Meta description
en.wikipedia.org/wiki/Computer_network No meta description	-
en.wikipedia.org/wiki/Network No meta description	-
en.wikipedia.org/wiki/Social_network No meta description	-
www.webopedia.com/TERM/N/network.html 22 words in meta description	A **network** is a group of two or more computer systems linked together. Examples include local-area **networks** (LANs) and wide-area **networks** (WANs).
www.arubanetworks.com/uk/ 23 words in meta description	Aruba designs and delivers Mobility-Defined NetworksTM that empower a new generation of tech-savvy users. Known as #GenMobile, they rely on mobile devices for
www.arubanetworks.com/ 18 words in meta description	Aruba **Networks** is a leading provider of enterprise mobility including Enterprise Wireless LAN, Access Points, and BYOD solutions.
onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0037 No meta description	-
www.journals.elsevier.com/computer-networks/ 21 words in meta description	Computer **Networks** is an international, archival journal providing a publication vehicle for complete coverage of all topics of interest to those...
www.cartoonnetwork.com/ 37 words in meta description	Cartoon **Network** is the home of your favourite kids cartoons online - with great free videos, online games, pictures, activities and competitions from cartoon shows like Ben 10, The Powerpuff Girls, Star Wars: The Clone Wars and Chowder!
www.juniper.net/uk/en/ 21 words in meta description	Juniper **Networks** offers high-performance **network** solutions that help service providers, enterprises, and public sector organizations create value and accelerate **business** success.

Meta description tag of competitors for the keyword **business networks** consists of 17 words on average.

Page	Meta description
www.theoysterclub.co.uk/ 23 words in meta description	The Oyster Club - Networking **business** meetings, London - Peer to peer **business** connections, cultured dinners and social breakfasts adding value to your **business** life.
www.londonchamber.co.uk/lcc_public/article.asp?aid=3915 No meta description	-
www.business-network.co.uk/ 0 words in meta description	-
findnetworkingevents.com/ 14 words in meta description	Search for **business** networking events, **business** clubs and networking groups in your local area
free-business-networking-events.meetup.com/cities/g...7/london/ 11 words in meta description	Find Meetup Groups in London, England about Free **Business** Networking Events
en.wikipedia.org/wiki/Business_networking No meta description	-
www.bl.uk/bipc/busnet/ 23 words in meta description	Expand your **business** at one of our many free **business** networking events and mingle with other entrepreneurs to help you grow your **business**.
www.biznet-uk.org/ No meta description	-
www2.gre.ac.uk/about/schools/business...search/groups/cbna/home 0 words in meta description	-
www.prowess.org.uk/womens-business-networks 15 words in meta description	Check out our women's **business network** listings for local meetings and events across the UK.

Meta keywords tag details

37 words in meta keywords

network, **networks**, **business networks**, marketing, referral, networking events, networking events in London, **business** breakfasts, **business** lunches, **business** evening events, networking events for women, **business** networking breakfasts, **business** networking lunches, **business** networking evening events, seminars, training, **business** support,

Meta keywords tag of competitors for the keyword **network** consists of 20 words on average.

Page	Meta keywords tag
en.wikipedia.org/wiki/Computer_network No Meta keywords	-
en.wikipedia.org/wiki/Network_(film) No Meta keywords	-
www.imdb.com/title/tt0074958/ 11 words in meta keywords	Reviews, Showtimes, DVDs, Photos, Message Boards, User Ratings, Synopsis, Trailers, Credits
www.networkrail.co.uk/ 67 words in meta keywords	**Network** Rail;UK rail infrastructure;**Network** Rail Infrastructure Ltd;Rail Track;Railtrack;BritIsh Railways; British Rail;UK railway management;BR;Operates rail **network**;Rail information;My local station;Find Train operators;Rail safety;Rail improvements;Maintans the rail newtork;Rail -careers;UK rail timetables; Current rail timetables;Find rail timetables;Search UK Rail stations;Nearest Rail Station;Rail station journey planner;Rail regulatory documents;Property rail enquiri
networkonair.com/ No Meta keywords	-
www.webopedia.com/TERM/N/network.html 13 words in meta keywords	**network**, networking, wired, wireless, LAN, WLAN, computer systems, **network** administrator, define glossary, dictionary
www.transitionnetwork.org/ No Meta keywords	-
www.network-railcard.co.uk/ 0 words in meta keywords	-
www.policy-network.net/ 2 words in meta keywords	News, Events
www.the-network.com/ 5 words in meta keywords	recruitment solution, international hiring needs

Meta keywords tag of competitors for the keyword **networks** consists of 14 words on average.

Page	Meta keywords tag
en.wikipedia.org/wiki/Computer_network No Meta keywords	-
en.wikipedia.org/wiki/Network No Meta keywords	-
en.wikipedia.org/wiki/Social_network No Meta keywords	-
www.webopedia.com/TERM/N/network.html 13 words in meta keywords	**network**, networking, wired, wireless, LAN, WLAN, computer systems, **network** administrator, define glossary, dictionary
www.arubanetworks.com/uk/ No Meta keywords	-
www.arubanetworks.com/ 11 words in meta keywords	Enterprise Mobility, BYOD, Wireless LAN, Access Points, Remote Networking, Aruba **Networks**
onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0037 No Meta keywords	-
www.journals.elsevier.com/computer-networks/ No Meta keywords	-
www.cartoonnetwork.com/ 11 words in meta keywords	online videos, free online games, wallpapers, show pictures, download, cartoon **network**
www.juniper.net/uk/en/ 22 words in meta keywords	networking, security, networking security, networking and security, juniper **networks**, Juniper **Networks** Inc., juniper, NetScreen, professional services, routing hardware, routing software, routers, switching

Meta keywords tag of competitors for the keyword **business networks** consists of 35 words on average.

Page	Meta keywords tag
www.theoysterclub.co.uk/ 130 words in meta keywords	Networking, Cultured, Seed, Black, Meeting, Oyster Club, The Oyster Club, London networking, **Business** networking, **Business** connections, Social dinner, Social events, Peer to peer networking, **Business** breakfast, Breakfast meeting, Oyster bar, Seed Pearl, Black Pearl, Cultured Pearl, Tanya Rennick, Queen Pearl , Mother of Pearl , Pearly Queen , Queen Witch, The Seed Pearl Club, The Cultured Pearl Club, The Black Pearl Club, The Seed Pearl Breakfast, The Cultured Pearl Salon, The Black Pearl Dinner, Breakfast, Salon, Dinner, **Business** and Social Networking, Executive Networking, Connect, Connections , Mentor , Motivate, Motivation, Mind spa, Mini mind spa, Workshop , Mini

	Workshop , Utilise, Development, Grow, Growth, Collaborate , Collaboration, Peer to Peer, Refer, Referral , Recommend, Recommendation, Engage, Community , Forum , Party, Fun, Speak , Speakers, Guests, Special Guest , Special Guest Speaker, Discuss , Lecture, Open Conversation, Expert, Champagne, Entrepreneur , Entrepreneur's Club, Question, Professional
www.londonchamber.co.uk/lcc_public/article.asp?aid=3915 5 words in meta keywords	**NETWORK**, **BUSINESS**, EVENTS, LONDON, FREE,
www.business-network.co.uk/ 0 words in meta keywords	-
findnetworkingevents.com/ 22 words in meta keywords	Networking Events,local networking events,**business** clubs,**business** events, networking groups,networking events for women,womens networking events, **business** networking events,netwalking
free-business-networking-events.meetup.com/cities/g...7/london/ 10 words in meta keywords	Free **Business** Networking Events,London,group,club,event,community,meetup
en.wikipedia.org/wiki/Business_networking No Meta keywords	-
www.bl.uk/bipc/busnet/ 26 words in meta keywords	BIPC; British Library; **Business** and IP Centre; **Business** & IP Centre; Entrepreneur; Innovation; Intellectual property; Inventor; London; Small **business**; SME; Start up; Networking; **network**; online; social networking
www.biznet-uk.org/ No Meta keywords	-
www2.gre.ac.uk/about/schools/business...search/groups/cbna/home No Meta keywords	-
www.prowess.org.uk/womens-business-networks 17 words in meta keywords	**business** clubs,events,networking,women\'s **business networks**,starting and growing a **business**,support in your area

H1 headings details

3 words in 1 H1 headings

Book an event

H1 headings of competitors for the keyword **network** contain 7 words in 3 headings on average.

Page	H1 headings
en.wikipedia.org/wiki/Computer_network 2 words in 1 H1 headings	Computer **network**
en.wikipedia.org/wiki/Network_(film) 2 words in 1 H1 headings	**Network** (film)
www.imdb.com/title/tt0074958/ 2 words in 1 H1 headings	**Network** (1976)
www.networkrail.co.uk/ 9 words in 1 H1 headings	**Network** Rail - We own and operate Britain's rail infrastructure
networkonair.com/ 16 words in 8 H1 headings	Heli | Ransom | Countess Dracula | Countess Dracula | Twins of Evil | The Last Chance | Royal Cavalcade | Coming soon
www.webopedia.com/TERM/N/network.html 1 words in 1 H1 headings	**network**
www.transitionnetwork.org/ 10 words in 5 H1 headings	Welcome | This month's theme | Book Review | Opinion | Transition **Network** resource
www.network-railcard.co.uk/ 2 words in 1 H1 headings	**Network** Railcard
www.policy-network.net/ 17 words in 5 H1 headings	Owning the Future | A New Age of Technological Progress | Progressive Capitalism | Populism Observatory | Making Progressive Politics Work
www.the-network.com/ 0 words in 1 H1 headings	-

H1 headings of competitors for the keyword **networks** contain 3 words in 1 headings on average.

Page	H1 headings
en.wikipedia.org/wiki/Computer_network 2 words in 1 H1 headings	Computer **network**
en.wikipedia.org/wiki/Network 1 words in 1 H1 headings	**Network**

en.wikipedia.org/wiki/Social_network 2 words in 1 H1 headings	Social **network**
www.webopedia.com/TERM/N/network.html 1 words in 1 H1 headings	**network**
www.arubanetworks.com/uk/ 3 words in 2 H1 headings	Aruba **Networks** EMEA
www.arubanetworks.com/ 15 words in 1 H1 headings	Aruba designs and delivers Mobility-Defined **Networks** TM that empower a new generation of tech-savvy users.
onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0037 1 words in 1 H1 headings	**Networks**
www.journals.elsevier.com/computer-networks/ 2 words in 1 H1 headings	Computer **Networks**
www.cartoonnetwork.com/ 2 words in 1 H1 headings	Cartoon **Network**
www.juniper.net/uk/en/ No H1 headings	-

H1 headings of competitors for the keyword **business networks** contain 5 words in 1 headings on average.

Page	H1 headings
www.theoysterclub.co.uk/ 3 words in 1 H1 headings	From the Blog
www.londonchamber.co.uk/lcc_public/article.asp?aid=3915 No H1 headings	-
www.business-network.co.uk/ 2 words in 1 H1 headings	National Site
findnetworkingevents.com/ 5 words in 1 H1 headings	Welcome to Find Networking Events
free-business-networking-events.meetup.com/cities/g...7/london/ 17 words in 2 H1 headings	Meetups are neighbors getting together to learn something, do something, share something… Sign me up! | Sign up
en.wikipedia.org/wiki/Business_networking 2 words in 1 H1 headings	**Business** networking
www.bl.uk/bipc/busnet/ 5 words in 1 H1 headings	Events to promote **business** networking
www.biznet-uk.org/ 0 words in 1 H1 headings	-
www2.gre.ac.uk/about/schools/business...search/groups/cbna/home No H1 headings	-
www.prowess.org.uk/womens-business-networks 4 words in 1 H1 headings	Women's **Business Networks** Listings

H2-H6 headings details

5 words in 1 H2-H6 headings

X recommend to a friend

H2-H6 headings of competitors for the keyword **network** contain 250 words in 50 headings on average.

Page	H2-H6 headings
en.wikipedia.org/wiki/Computer_network 145 words in 59 H2-H6 headings	Contents | History [edit] | Properties [edit] | **Network** packet [edit] | **Network** topology [edit] | **Network** links [edit] | Wired technologies [edit] | Wireless technologies [edit] | Exotic technologies [edit] | **Network** nodes [edit] | **Network** interfaces [edit] | Repeaters and hubs [edit] | Bridges [edit] | Switches [edit] | Routers [edit] | Modems [edit] | Firewalls [edit] | **Network** structure [edit] | Common layouts [edit] | Overlay **network** [edit] | Communications protocols [edit] | Ethernet [edit] | Internet Protocol Suite [edit] | SONET/SDH [edit] | Asynchronous Transfer Mode [edit] | Geographic scale [edit] | Organizational scope [edit] | Intranets [edit] | Extranet [edit] | Internetwork [edit] | Internet [edit] | Darknet [edit] | Routing [edit] | **Network** service [edit] | **Network** performance [edit] | Quality of service [edit] | **Network** congestion [edit] | **Network** resilience [edit] | Security [edit] | **Network** security [edit] | **Network** surveillance [edit] | End to end encryption [edit] | Views of **networks** [edit] | See also [edit] | References [edit] | Further reading [edit] | External links [edit] | Navigation menu | Personal tools | Namespaces | Variants | Views | More | Search | Navigation | Interaction | Tools | Print/export | Languages
en.wikipedia.org/wiki/Network_(film)	Contents | Plot [edit] | Cast [edit] | Production [edit] | Release [edit] | Critical reception [edit] | Awards and honors [edit] | Academy Awards [edit] | Golden Globes [edit] | BAFTA Awards [edit] | American

53 words in 26 H2-H6 headings	Film Institute [edit] | In popular culture [edit] | References [edit] | External links [edit] | Navigation menu | Personal tools | Namespaces | Variants | Views | More | Search | Navigation | Interaction | Tools | Print/export | Languages
www.imdb.com/title/tt0074958/ 122 words in 69 H2-H6 headings	MOVIES | CHARTS & TRENDS | TV & VIDEO | SPECIAL FEATURES | CELEBS | PHOTOS | EVENTS | LATEST HEADLINES | NEWS | COMMUNITY | YOUR WATCHLIST | GET INFORMED | GET CONNECTED | GET DISCOVERED | Director: | Writer: | Stars: | Error | Added to Your Check-Ins. | Share | Own it | Quick Links | Details | Storyline | Did You Know? | Photo & Video | Opinion | TV | Related Items | Professional Services | Related News | User Lists | Connect with IMDb | Share this Rating | Take The Quiz! | User Polls | Photos | People who liked this also liked... | Cast | Storyline | Plot Keywords: | Taglines: | Genres: | Certificate: | Parents Guide: | Details | Country: | Language: | Release Date: | Also Known As: | Filming Locations: | Box Office | Budget: | Company Credits | Production Co: | Technical Specs | Runtime: | Sound Mix: | Color: | Aspect Ratio: | Did You Know? | Trivia | Goofs | Quotes | Connections | Frequently Asked Questions | User Reviews | Message Boards | Contribute to This Page
www.networkrail.co.uk/ 13 words in 8 H2-H6 headings	Stations | Improving the railway | Timetables | Careers | Corporate documents | Property | National helpline | Travel information
networkonair.com/ 139 words in 51 H2-H6 headings	Baxter | Richard III | The Four Feathers | The Birthday Present | Supermarionation Weekender | Two Left Feet | The Kitchen | Ransom | Countess Dracula | Twins of Evil | The Last Chance | Royal Cavalcade | Make-Up | The Medusa Touch | The Shout | Dream Home | The Hypnotist | Lucky Feller: The Complete Series | Oh Boy | The Professionals: MkII | My Teenage Daughter | The Young and the Guilty | The Franchise Affair | Johnny, You're Wanted | Timeslip | Lucky Girl | Your Witness | Animal Farm | Unearthly Stranger | The Lady Vanishes | The Man Who Knew Too Much | Please Teacher | Invasion | The Middle Watch | Dangerous Voyage | The Woman's Angle | Father's Doing Fine | The Key Man | The Last Seduction | Bad Timing | Freedom of the Seas | British Musicals of the 1930s: V... | A Nice Girl Like Me | A Man About the House | Fascination | You Can't Escape | Young and Innocent | Our Man in Marrakesh | Bond Street | Into the Blue | Baby Love
www.webopedia.com/TERM/N/network.html 18 words in 6 H2-H6 headings	Related Terms | Top 5 **Network** Questions | Related Webopedia Articles | Related Links | We Recommend | Datamation Hangouts with Tech Experts
www.transitionnetwork.org/ 101 words in 23 H2-H6 headings	This month's series: How we make space for nature | September's theme is 'Making Space for Nature' | What is Transition? | The Transition Interview: George Monbiot | Addressing drought by thinking like a forest | Latest Transition Culture blog post | The Second Life of Sally Mottram: a review | REconomy Project | Featured resource | Featured project | What can I do? | Find Transition Nearby | Sign up for newsletter | Transition **Network** is on the road | Transition Conversations - a series of Free Webinars | Watch the film: In Transition 2.0 | Looking for Transition Culture? | Read the newspaper: Transition Free Press | Top stories | Latest initiatives | Social Reporters latest | REconomy Latest | Follow Us
www.network-railcard.co.uk/ 29 words in 6 H2-H6 headings	Save all year on train travel | How do I buy a **Network** Railcard? | What discounts do I get? | When can I use my **Network** Railcard? | Perfect for days out
	About us | Newsletter | Follow | Supporting companies in a scale-up revolution | Encouraging technical innovation and high-growth SMEs | Trading places: Preparing Britain for global opportunity | The Italian left a crossroads: Where now for the PD? | Publications | Owning the Future | Why Institutions Matter in the Eurozone | Mending the Fractured Economy | Making Progressive Politics Work | British Political Parties in Europe | The Unhappy State of the Union | Education, Pre-distribution and Social Justice | Competing in a Race to the Top | The Europe Dilemma | Governing Britain | Contracts not Hand-Outs | Britain's Financial Services Industry in a Changing Europe | Labour's Economic Path to Power | Making Markets Work | A New Promise for Europe | Progressive Politics after the Crash | Economic Governance in a Non-Federal EU | Politics in the Austerity State | Left without a Future? | Takeovers and the Public Interest | **Network** | In the media | Chuka Umunna: How Britain can win in the new global economy | Ed Miliband to change tone on big companies | Lord Adonis review backs devolution as key to 'balanced economic recovery' | The British centre-left must espouse a practical vision of a progressive capitalism | Labour offers olive branch to **business** by targeting tax and investment | Murnaghan 22.06.14 Interview with Lord Liddle | The new working class | Reformers should be given more time, says Dijsselbloem | Social democracy is on the ropes – it needs a new vision | Une Europe plus sociale passe par des engagements réciproques | Los nuevos inseguros en la sociedad 5-75-20 | Exclusive: Admit you'll have to raise taxes if you win next election, Ed Miliband told | We need a radical reform of the tax system | Vänstern söker sin reformagenda | Labour bets on living standards being key issue as 2015 elections near | A spad's view: the good, the bad and the ugly of Whitehall policymaking | How the left can win in the 5-75-20 society | 'The Europe Dilemma', by Roger Liddle | Labour denies report of European socialist party walkout | Ed Miliband has closed a route to Britain's EU exit | Britain should keep open possibility of joining euro, says Labour frontbencher | Angela Merkel ready to offer Britain limited EU opt-outs | Governing Britain: Power, Politics and the PM | Renzi, idee per fronteggiare Merkel | Labour needs to challenge the British tradition of government | Honesty is the best policy for political appointments | Nixon goes to China? | How Labour can counter the populist threat | George Osborne's Economic Recovery Like 'Groundhog Day', Warn Critics | Il ritorno del salario minimo | The two big lessons for the UK from Germany and the Nordics | Labour must wise up to what voters really want | London calling per il Pd (e il suo leader) | Book Review: Progressive Politics After the Crash | If Labour is to succeed, it must end its addiction to the state | Departmental determinism | Labour cannot just coast victory in 2015 | Autumn statement 2013: our writers' verdict | How Ed Miliband can continue to make the political weather | Labour's election success depends on its ability to prove its economic credibility | Labour is still weak on economic strategy, warns former Brown adviser | Zwarte Zondag in Europa | La crisi política europea castiga una socialdemocràcia que busca vots i discurs | Rød Agenda | A European shutdown? The 2014 European elections and the great recession | Not much left for Europe's left | David Cameron's speech at the Conservative conference | Grandi coalizioni, piccole sinistre | What Merkel's Win Means for Berlin's Allies | La sinistra e la sua camicia di forza | 'Venstrefløjen glemte at forny sin kritik af markedet' | The new 'progressive' conservatism is a threat to the centre-left | Three ways for Britain's Labour party and Europe's left to find their voice | Ed Miliband needs to tell Britain what he's really thinking | How to cure the malaise afflicting Europe's left | Bad economic news for Europe is good news for Merkel and Cameron | David Miliband: The decade of disorder | Happy birthday, national minimum wage | Left Without a Future? by Anthony Painter: astute proposals, overly "pragmatic" | Mandelson to Carney: Pay attention to Europe | Ed Miliband's wonkish pin-up | Lord Adonis launches review into UK growth plans | Meet Mr Predistribution: Jacob Hacker | Jacob Hacker on predistribution and Cameron PMQ jibe | Predistribution | Predistribution | How to reinvigorate the centre-left? Predistribution | How Labour can give real meaning to predistribution | Il battesimo triste dell'Alleanza dei progressisti | Thorning: Upopulær hjemme – populær ude | Is Labour ready to turn the state upside down in 2015? | François Hollande after One Year | Ed Miliband 'must do better in South to win general election' warns former Blair adviser | It's foolish for Labour to think that the voters have turned left | Hard lessons | Local elections: Ukip surge gives all parties cause for concern | Local elections: 10 things we've learned | Hollande gambling on election defeat for Merkel as French influence fades | Jo Johnson: a left-field choice to be David Cameron's policy chief | Dagli Usa alla sua Europa, le amicizie internazionali di Letta | Divided Kingdom | Das Dilemma der Europa-Linken | Gör sig redo att ta över | Stefan Löfven – en radikal och global politiker? | 'Lighed er en gammel

www.policy-network.net/ 1847 words in 242 H2-H6 headings	socialdemokratisk værdi, som bør stå langt klarere' | John Ivison: Is a 'Tony Blair moment' enough to save Thomas Mulcair's NDP? | Conference gauges the progress of progressives | Europe's center left defends welfare amid austerity | Europe's center left defends welfare amid austerity | Conference gauges the progress of progressives | Etat-providence et austérité, défi de la gauche européenne | Tony Blair is right: the post-1945 social democratic model has to change | Blair and Miliband split over future of Labour | Martin O'Malley heads to Denmark for progressive governance conference | L'incontro annuale dei progressisti | Una sinistra che perde pezzi? | O'Malley headed to Copenhagen | Thomas Mulcair pushes back at Liberals at home and abroad | Mulcair asserts party's progressive credentials at home, abroad | Versagt Die großen Parteien haben in Europa selbst die Flanke zum Populismus geöffnet | Spend and borrow will not save the left | We can't limit free speech. Even for Di Canio | Spend and borrow will not save the left | Why Ukip, the Tea Party and Beppe Grillo pose a threat to the mainstream | The populist signal is getting louder - and mainstream politics is under threat | The EU must work for the people, not for the beauty of processes | Labour and public spending | Europas Initiativen gegen Gehaltsexzesse: Aufstand gegen die Abzocker | The Eastleigh byelection: the lessons for Labour | Eastleigh result raises doubts about Cameron's general election prospects | Herman Van Rompuy attacks Cameron's plans to claw back powers from Brussels | EU leader warns Britain over referendum plans | Gilmore says long period of UK uncertainty not in anyone's interest | You can quit EU but not 'for free' warns Herman Van Rompuy | 'Perhaps the EU can be tolerated after all': polls show in-out promise has boosted support for remaining | EU's Rehn urges euro debtors to keep mending finances | Cameron warned over EU campaign | EU leader warns Britain over referendum | Van Rompuy advierte a Reino Unido que dejar la UE "no sale gratis" | Van Rompuy advierte a Cameron de que salir de la Unión Europea no es gratis | Van Rompuy advierte a Cameron de que salir de la Unión Europea no es gratis | Van Rompuy advierte del peligro de nuevas "réplicas" en la crisis del euro | Van Rompuy alerta de que la crisis puede provocar nuevas "réplicas" | Van Rompuy: "Aan een Brits vertrek uit EU hangt een prijskaartje" | Van Rompuy: 'Aan een Brits vertrek uit EU hangt een prijskaartje' | Une sortie du Royaume-Uni de l'Union aurait «un prix» | Van Rompuy : une sortie du Royaume-Uni de l'UE aura "un prix" | Veiled Warning to Britain From a Bloc Leader | Une sortie du Royaume-Uni de l'UE aura "un prix" pour Londres | "Une sortie du Royaume-Uni de l'UE aura un prix pour Londres" | Une sortie du Royaume-Uni de l'UE aura "un prix" pour Londres | David Cameron's EU referendum bolsters support for membership | Britain must not 'undo' EU by leaving, says Olli Rehn | Rehn says EU's bank bonus cap in line with commitments | Rehn says EU's bank bonus cap in line with commitments | Rehn says EU's bank bonus cap in line with commitments | Van Rompuy tells Britain leaving EU "does not come for free" | Van Rompuy hits at Cameron on treaty change | EU council leader attacks UK plans to rewrite membership | Kto ma rządzić w Europie? | Rapport: Nordisk velfærdsmodel kan gøre Europa konkurrencedygtig | The bias towards traditional welfare threatens social justice | Les travaillistes britanniques mal à l'aise sur l'Europe | EU referendum talk weakens UK's hand | Our welfare state is being transformed under false pretences | Workers who claim benefits told to increase hours or lose universal credit | Operaisti o blairiani? Torna il dilemma della sinistra europea | La Ue vuole il veto sui nostri conti, Monti dice no e il Pd? | Innovation: let the good risk-takers get their reward | Lecciones de la campaña de Obama en un encuentro con Bill Clinton | Clinton, Blair come si vince l'antipolitica | Una nuova Terza Via e quei vecchi progressisti da non rottamare | For Miliband, isolation from Europe would be a grave error | Bill Clinton joins US chorus of concerns about independence | Britain awaits an inevitable referendum | Europrogressisti: tutti a Londra da Blair e Clinton | David Miliband: ecco il mio centrosinistra | Austerity is here to stay, and we'd better get used to it | Interview with David Miliband | Labour, the Left and Europe | Der Euroskeptizismus ist gewachsen | The EU budget's value, not size, is what's important | ¿Qué es exactamente la unión política? | Road to hell beckons as EU's dangerous drift continues | Left needs credible economics, Gilmore says | Left must show 'credibility' | I progressisti non sono più quelli di una volta | Financial crisis deepens British Euroscepticism | Financial crisis deepens British Euroscepticism | I progressisti non sono più quelli di una volta | L'intégration politique de l'UE est un moyen pas une fin | Predistribution 'creating fairer society' | Jacob Hacker Interview on Pre-distribution | Ed Miliband Speech: Panel Verdict | Joke was lost on me, says Miliband's political guru | Goodbye Beveridge: Welfare's end nears | British Social Attitudes Survey | Britain risks a lost decade unless it changes course | Olanda, una scossa ai progressisti | The Dutch opt for centre-right reliability over populism | Predistribution: an unsnappy name for an inspiring idea | Andrew Marr shines a light on the key events around the world this week | La Terza via rialza la testa | Larry Summers warns of 1930s slump threat to UK economy | Ed Miliband unveils 'predistribution' plan to fix economy | Miliband Urges Move To High-Skill Economy | Labour must restore economic credibility | How would Labour get growth in the economy? | What would Labour do? | Co-ops are doing Britain proud, but is it mutual? | Le Royaume-Uni pourrait rejoindre une zone euro ayant retrouvé sa stabilité | How Miliband could help Hollande drive Europe forward | Cameron's promise of more austerity is an election trap for Labour | Banks must learn to reward the good risks | Review: After the third way | Britain and the EU | Help Britain do what it does best: make stuff | Hollande and Merkel Face Berlin Showdown | The new Paris-Berlin Axis will hinge on Monti | Hollande will go via Brussels to rescue France | Fear of disillusionment in the UK | Southern comfort? | An in-out referendum on EU membership? | Peter Mandelson calls for EU referendum | The travails of Europe's centre-left | Mayday for the European Left | After the Third Way | Is Europe's Left ready to govern? | What we are reading | Ideas and debate | State of the Left | Sign up to our newsletter
www.the-network.com/ 31 words in 5 H2-H6 headings	Recruit in 132 countries via one single point of contact... | Your company is based in: | Your local expert is: | Please get in touch with: | Discover The **Network** members around the globe

H2-H6 headings of competitors for the keyword **networks** contain 56 words in 23 headings on average.

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en.wikipedia.org/wiki/Computer_network 145 words in 59 H2-H6 headings	Contents | History [edit] | Properties [edit] | **Network** packet [edit] | **Network** topology [edit] | **Network** links [edit] | Wired technologies [edit] | Wireless technologies [edit] | Exotic technologies [edit] | **Network** nodes [edit] | **Network** interfaces [edit] | Repeaters and hubs [edit] | Bridges [edit] | Switches [edit] | Routers [edit] | Modems [edit] | Firewalls [edit] | **Network** structure [edit] | Common layouts [edit] | Overlay **network** [edit] | Communications protocols [edit] | Ethernet [edit] | Internet Protocol Suite [edit] | SONET/SDH [edit] | Asynchronous Transfer Mode [edit] | Geographic scale [edit] | Organizational scope [edit] | Intranets [edit] | Extranet [edit] | Internetwork [edit] | Internet [edit] | Darknet [edit] | Routing [edit] | **Network** service [edit] | **Network** performance [edit] | Quality of service [edit] | **Network** congestion [edit] | **Network** resilience [edit] | Security [edit] | **Network** security [edit] | **Network** surveillance [edit] | End to end encryption [edit] | Views of **networks** [edit] | See also [edit] | References [edit] | Further reading [edit] | External links [edit] | Navigation menu | Personal tools | Namespaces | Variants | Views | More | Search | Navigation | Interaction | Tools | Print/export | Languages
en.wikipedia.org/wiki/Network 54 words in 24 H2-H6 headings	Contents | Biological, biosocial, electric, and electronic [edit] | Mathematics [edit] | Proper nouns (names) [edit] | Art, entertainment, and media [edit] | In film [edit] | In gaming [edit] | In music [edit] | In print [edit] | In television [edit] | In organizations [edit] | See also [

	edit] | Navigation menu | Personal tools | Namespaces | Variants | Views | More | Search | Navigation | Interaction | Tools | Print/export | Languages
en.wikipedia.org/wiki/Social_network 121 words in 48 H2-H6 headings	Contents | Overview [edit] | History [edit] | Levels of analysis [edit] | Micro level [edit] | Meso level [edit] | Macro level [edit] | Theoretical links [edit] | Imported theories [edit] | Indigenous theories [edit] | Structural holes [edit] | Information benefits [edit] | Social capital mobility benefits [edit] | Research clusters [edit] | Communications [edit] | Community [edit] | Complex **networks** [edit] | Criminal **networks** [edit] | Diffusion of innovations [edit] | Demography [edit] | Economic sociology [edit] | Health care [edit] | Human ecology [edit] | Language and linguistics [edit] | Literary **networks** [edit] | Organizational studies [edit] | Social capital [edit] | Social media [edit] | See also [edit] | References [edit] | Further reading [edit] | External links [edit] | Organizations [edit] | Peer-reviewed journals [edit] | Textbooks and educational resources [edit] | Data sets [edit] | Navigation menu | Personal tools | Namespaces | Variants | Views | More | Search | Navigation | Interaction | Tools | Print/export | Languages
www.webopedia.com/TERM/N/network.html 18 words in 6 H2-H6 headings	Related Terms | Top 5 **Network** Questions | Related Webopedia Articles | Related Links | We Recommend | Datamation Hangouts with Tech Experts
www.arubanetworks.com/uk/ 17 words in 6 H2-H6 headings	Stabilize The Air | Secure The Air | Simplify The Air | Smarten-Up The Air | Customer Success Stories | Learn More
www.arubanetworks.com/ 30 words in 13 H2-H6 headings	Secure Mobility Redefined | LAUSD Moves to 1:1 Computing | ClearPass - A Security Leader | Airheads Local 2014 | Verticals | Gartner Magic Quadrant | Aruba is a leader | News | Communities | Products | Solutions | Support | Communities
onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0037 58 words in 16 H2-H6 headings	JOURNAL TOOLS | JOURNAL MENU | FIND ISSUES | FIND ARTICLES | GET ACCESS | FOR CONTRIBUTORS | ABOUT THIS JOURNAL | SPECIAL FEATURES | Recently Published Issues | INOC 2015 - 7th International **Network** Optimization Conference | Glover-Klingman Prize Winners: | Enjoy the latest papers publishing in **Networks**: | Mathematicians - we want to hear from you! | **Networks** Call for Papers: Special Issue Metaheuristics in **Network** Optimization | SEARCH | SEARCH BY CITATION
www.journals.elsevier.com/computer-networks/ 11 words in 2 H2-H6 headings	The International Journal of Computer and Telecommunications Networking | Email a Friend
www.cartoonnetwork.com/ No H2-H6 headings	-
www.juniper.net/uk/en/ 46 words in 30 H2-H6 headings	Choose Country | North America | Latin America | Europe | Asia Pacific | Enterprise | Service Provider | Public Sector | **Business** Needs | Locations / Architectures | Industries | Juniper Insights | **Business** Needs | Locations / Architectures | Segments | **Business** Needs | Locations / Architectures | Verticals | Products by Category | Services | All Products & Services | About Juniper | News And Information | The Juniper Difference

H2-H6 headings of competitors for the keyword **business networks** contain 132 words in 36 headings on average.

Page	H2-H6 headings
www.theoysterclub.co.uk/ 7 words in 4 H2-H6 headings	Buffet | Ponydog | Upcoming events | Our latest Tweet
www.londonchamber.co.uk/lcc_public/article.asp?aid=3915 56 words in 25 H2-H6 headings	Time To Talk **Business** | MEET THE SOUTH KOREAN DELEGATION | EXCLUSIVE NETWORKING AND SHOPPING EVENING AT MAPPIN & WEBB | RESOURCE EFFICIENCY - DOING MORE WITH LESS | CHANGING PLACES NETWORKING RECEPTION | CEREAL NETWORKING | THE GRAPEVINE **NETWORK** | UNLOCKING AND COMMUNICATING THE VALUE OF ENVIRONMENTAL PRODUCT DECLARATIONS (EPD) | MAXIMISE YOUR MEMBERSHIP | CHANGING PLACES @ LUNCHTIME | TIME TO TALK **BUSINESS** | LCCI LIFE | CEREAL NETWORKING
www.business-network.co.uk/ 182 words in 24 H2-H6 headings	Visit one of our **networks** | Over 21 Years Of Providing Professional Networking Events For Senior Decision Makers | There is a very good reason why The **Business Network** is still so popular over 21 years on from its launch in the UK - it works! Attracting senior decision-makers to the monthly, lunchtime events, the unique, professional and **business** focused format offers an effective environment for building close working links and establishing that invaluable 'support **network**' of **business** contacts. | But we shouldn't be telling you how great we are - come to one of our events and hear it from our members; they will give you a clearer picture as to how they have benefited from being involved. | The **Business Network** Liverpool Launching 16th October | News | What our members say... | Next Events | Bolton and Bury **Business Network** | Chester **Business Network** | Derby **Business Network** | Hull **Business Network** | Lancaster **Business Network** | Lincoln **Business Network** | Liverpool **Business Network** | London Central **Business Network** | Manchester **Business Network** | Nottingham **Business Network** | Central and East Lancashire **Business Network** | South Herts **Business Network** | South Manchester **Business Network** | South Humberside **Business Network** | Warrington **Business Network**
findnetworkingevents.com/ 241 words in 69 H2-H6 headings	England | Scotland | Wales | Northern Ireland | TOWNS/CITIES A-G: | TOWNS/CITIES H-N: | TOWNS/CITIES O-U: | TOWNS/CITIES V-Z: | England | Scotland | Wales | Northern Ireland | England | Scotland | Wales | Northern Ireland | England | Scotland | Wales | Northern Ireland | Upcoming Events | Tue | Sep | 02 | 1200hrs - 1415hrs | Women in **Business Network** (Wells) | Wells Golf Club, Wells | Women in **Business Network** | Tue | Sep | 02 | 7.30am - 9.30am | Vibrant **Network** - Ombersley | Ombersley Golf Club, Droitwich | Vibrant **Network** | Tue | Sep | 02 | 12pm - 2pm | Athena Hampstead meeting | The Spaniards Inn Pub, London | Events for Dynamic Women | Latest Blog Posts | Video - King of Bathrooms: how one man challenged an entire industry | By Stuart Russell | 19 Aug 2014 | Networking Group Profile: The **Business** Golf **Network** | By Stuart Russell | 25 Jun 2014 | Hate networking? Why you're much better at it than you think! | By Hannah Martin | 25 Jun 2014 | Networking News | PCG evolves to

	become IPSE, the UK's new association for the self-employed | By George Evans | 01 Sep 2014 | The **Business Network** - 21 Years Old | By Helen Bennett | 21 Aug 2014 | Athena Inspire Conference 2014 | By Angela Spiteri | 13 Aug 2014 | Networking Tips | Fancy setting up and running your own networking event? | 7 Steps to Creating and Maintaining a Positive Impression | Nervous about Networking? 3 top tips to get you out there | Networking Guide | A Quick Guide to **Business** Networking | Subscribe | Register | Ads | Premium Profile | Event Organisers - Upgrade to Premium Profile for less than £3.50/month! | Find out more... | Twitter | Follow us on Twitter | More about FindNetworkingEvents.com
free-business-networking-events.meetup.com/cities/g...7/london/ 743 words in 200 H2-H6 headings	Iranian & non-Iranian **Business** Networking London UK | 95 **Business** | Aim & Aspire Women's **Business** Club | 198 Entrepreneurs | #1 **Business** Boosting Speed Networking Club | 375 Club Members | Entrepreneurial Women's **Network** | 2,433 Entrepreneurial Women | Career and **Business** Lounge | 172 Londoners | **Business** Mentoring | 1,285 **Businesses** | African **Business** Entrepreneur Networking | 190 Members | Networking London | 54 Londoner | **Business** Biscotti H/H - Informal **Business** Networking | 16 BB Networkers! | Richmond & Twickenham **Business** Networking Meeting | 34 People in **business** | Small **Business Network** | 213 Members | Branding **Network** | 367 Members | EBANG: Essex **Business** Advisers Networking Group | 17 EBANGERS | South London Child Friendly Networking Group | 9 Ambitious Parents | **Business** Brand Accelerator | 27 Entrepreneurs | Drinks & Links - London | 4,145 Great People | Entrepreneurs Networking Group | 132 Members | The **Business** Growth Blueprint: Learn to Grow Your **Business** | 111 The Elite Entrepreneurs | Kickass Entrepreneur Networking Event | 52 North London Entrepreneurs | Free Networking 1.30pm 18/12 @ Yager Bar EC4M8EN 07828664917 | 14 **Business** Networkers | Internet Marketing Help & **Business** Networking - Herts/Essex | 17 Seekers of Sales | International **business network** | 19 Members | London Achiever's Entrepreneur/ Property investors | 55 London Achiever's Entrepreneurs | Banking and Finance Professionals London (BFP London) | 1,528 Professionals | LIFE CHANGING EVENTS & SEMINARS in London for FREE | 203 Members | Tech Start-up Networking London | 171 Techies | Ducciozambrini.com exclusive Members Club | 99 Members of the Club | London Social Society | 787 London Socialites | The London Traders **Network** | 1,332 Traders | Freelancers and freespirits | 427 Kindred spirits | **Business** Workshops, Training and Networking | 49 Members | social networking for musicians,actors &creatives in general | 290 creatives | London Property Investors **Network** (pin) | 227 CWpin Members | Premier Property Networking Club - London Canary Wharf | 97 Premier Club Gold Members | Freedom Works UK - Community Works | 32 Members | Islington Property Networking | 210 Islington Property Networkers | Likacoaching | 161 Professionals from Europe | Career Circus Young Professionals **Network**, London | 72 Young Professionals | London **Business** Angels & Entrepreneurs | 1,154 Entrepreneurs | The London Pro-Bono Accountants | 51 Entrepreneurs | The London Property Investors Meet | 722 London Property Professionals | International London Socialites- Professionals & Networkers | 556 I L Socialites | Accelerace | 115 Entrepreneurs | School for Startups Home **Business** Meetup | 223 Members | London Luxury: The **Business** of Luxury Goods and HNW services | 120 Luxury & wealth management folk | Freelance Brains | 221 freelancebrains | Six O'Clock Club London | 278 Six O'Clock Clubbers | The Communication Development Group | 111 Communication Team Members | Pollen London: the marketing networking night | 165 Networkers | Kent Success Group | 11 Kent Success Group | LinkedUp - Professional & Entrepreneur Networking | 33 Connected Londoners | **Business** and Social Networking Group | 132 Networkers | Grow your **Business**, keep the equity. | 180 Grant Maximisers | Shake On It (**Business** and social networking) | 45 Shakers | **Business** Skills Exchange | 23 Financial Freedom Seekers | Free Entrepreneurial Training Workshops | 116 The ambitious | London Banquet Plus | 114 Members | Using Social Experiences To Kick-Ass & Start A Movement | 20 Members | Interesting Talks London | 8,928 Interested Listeners | Silicon Roundabout | 5,733 Inner Circle | MiniBar | 7,233 Internet Professionals | AppsJunction-Developers, Startups, Investors, Speakers | 2,922 Apps Enthusiasts | The Twickenham Social Meetup | 1,109 Twickers Locals | London Behavioural Economics **Network**, monthly drinks | 697 members | Forward Partners Live - Tech Startup Speakers Events | 121 Members | Film Professionals Connection | 391 Filmmakers | Beermat Monday - London | 694 Members | Donatello Club London | 360 Friends | Startups @ London | 1,150 Entrepreneurs and Co-founders | CoFoundersLab Matchup London | 366 Entrepreneurs | The City of London Gay Meetup Group | 577 Members | LGBT Professionals | 335 LGBT Professionals | Spanish Conversation with Spanish Tutor in London | 632 Members | Broadgate Toastmasters - improve your public speaking skills | 619 Public Speakers | Peer2peer Legal Advice for Startups | 853 Members | Graduate Data Science Initiative | 382 Data Scientists | lesbian of colour socials - LOCS | 109 Members | Say YES! to your Life - UK Meetup Group! | 234 Transformational Members | London Giggle | 26 Girls | SATURDAY LIFE DRAWING AND COMEDY CLUB | 113 Saturday Artists | Chelsea Women's Socialising and Networking Group (London) | 60 Ladies | #WomenRock | 15 Members | Female Formula | 192 Naturals | Asian Dinner Club | 461 Asian Singleton | Love Property in N1 Meetup Group | 261 Members | Innate Thought - A New Beginning | 53 Members | Lesbian & Gay Professionals | 44 L & G Professionals | London : Girl Gone International | 928 girls gone international | Online Mastery - Live Events and Meetups | 27 Outstanding Action Takers | Finance Your BitCoin **Business** & Meet BitCoin Investors | 155 UK BitCoiners | Union Black | 89 Members | Established Young Entrepreneurs Meetup | 124 Young Entrepreneurs | Peak Performers in London - Leadership Development Community | 79 Peak Performers | Taking Action, Making it Happen - Central London | 50 Members | London Osho Active Meditations Group | 1,355 Active Meditators | The Adobe & Web Open Source London Meetup Group | 115 Dreamweavers & Web Open Sources | AppFusion London | 821 mobile app folks | Zappers - Software Testing Community | 892 Zappers | Open Blend | 52 Members | MarketingTank | 125 Members
en.wikipedia.org/wiki/Business_networking 31 words in 18 H2-H6 headings	Contents | General **business** networking [edit] | **Networked business** [edit] | See also [edit] | References [edit] | External links [edit] | Navigation menu | Personal tools | Namespaces | Variants | Views | More | Search | Navigation | Interaction | Tools | Print/export | Languages

www.bl.uk/bipc/busnet/ 23 words in 7 H2-H6 headings	**Network** in the Centre | **Network** with us online | Helping you find other small **business networks** | Join us online | Success stories | e-newsletter | Contact us
www.biznet-uk.org/ 10 words in 5 H2-H6 headings	WELCOME TO **BUSINESS NETWORK** | PR Services | Future Events | Flickr | Twitter
www2.gre.ac.uk/about/schools/business...search/groups/cbna/home 3 words in 1 H2-H6 headings	News and events
www.prowess.org.uk/womens-business-networks 21 words in 11 H2-H6 headings	Base | Navigation | Categories | UK Women's **Business Networks** | Related Posts | Profile cancel | Contributors | Get involved | Keep in touch | Popular topics | Blog Awards

Bold text details

No bold text

Bold texts of competitors for the keyword **network** contain 74 words in 40 text elements on average.

Page	Bold text
en.wikipedia.org/wiki/Computer_network 29 words in 54 bold text elements	Informational (computing) | computer **network** | data **network** | RFC 1149 | a | b | a | b | 2009 | 16 | 3285 | a | b | a | b | Computer | Telecommunications | Telecommunication · | Computer **network** | Book | Category | Commons | Portal | Wikiquotes
en.wikipedia.org/wiki/Network_(film) 28 words in 28 bold text elements	**Network** | needs additional citations for verification | **Network** (film) | Academy Award winner for Best Actor and Best Actress | Academy Award winner for | Best Actress and | Best Supporting Actress | **Network**
www.imdb.com/title/tt0074958/ 100 words in 50 bold text elements	Go to IMDbPro » | 8.2 | Hay que ver | Films I want to see. | 31 Days of Drama | Funniest combo of 2 classic AFI's Quotes ... | top 30 MOVIES YOU MUST SEE!!!!! | **Network** | Top 250 #175 | Won 4 Oscars. | Dog Day Afternoon | Director: | Stars: | Chinatown | Director: | Stars: | Cool Hand Luke | Director: | Stars: | The Night of the Hunter | Directors: | Stars: | The Grapes of Wrath | Director: | Stars: | The Sting | Director: | Stars: | The Apartment | Director: | Stars: | In the Name of the Father | Director: | Stars: | Touch of Evil | Director: | Stars: | Judgement at Nuremberg | Director: | Stars: | 8½ | Director: | Stars: | The Hustler | Director: | Stars: | Q: | Q: | Q: | Prescient...
www.networkrail.co.uk/ 66 words in 8 bold text elements	Cookies and networkrail.co.uk. | **Network** Rail reclassified from the private to the public sector | A reminder to farmers to use level crossings safely this harvest | Cambrian Coast railway re-open | Framework contracts awarded for building and civils work | New and updated information published on our transparency portal | Apprentices recruited to work on the Thameslink Programme | Talking statues of The Unknown Soldier and Isambard Kingdom Brunel at Paddington station
networkonair.com/ 4 words in 1 bold text elements	© 2014 **Network** Distributing Ltd
www.webopedia.com/TERM/N/network.html 20 words in 18 bold text elements	(n.) | local-area **networks** (LANs) | wide-area **networks** (WANs) | campus-area **networks** (CANs) | metropolitan-area **networks** MANs) | home-area **networks** (HANs) | topology | protocol | architecture | (v.)
www.transitionnetwork.org/ 31 words in 13 bold text elements	Read more here. | Read more here. | Read more here. | Download this resource from the NEF site. | 'The Sensible Garden' | Read more about the garden here. | St Andrews | Penwith | Bristol | Berkhamsted | www.reconomy.org
www.network-railcard.co.uk/ 10 words in 5 bold text elements	**Network** Railcard | Save all year on train travel | £30 | ALL
www.policy-network.net/ 435 words in 213 bold text elements	How Britain can Make it in a Fast Changing World | Understanding the Populist Signal | A Handbook Of Ideas | Evening Standard | The Financial Times | The Guardian | The Independent | The Guardian | Sky News | The Economist | EurActiv | The Guardian | La Tribune | El Dario | The Independent | The Independent | Dagens Arena | The Guardian | The Guardian | New Statesman | The Financial Times | EurActiv | The Financial Times | The Guardian | The Guardian | Progress | Il Foglio | The New Statesman | The Financial Times | The Economist | The New Statesman | Huffington Post | Europa | The New Statesman | The Guardian | Europa | LSE Review of Books | The New Statesman | The Economist | The Independent | The Guardian | The Guardian | The Guardian | The Guardian | MO* | ARA | Dagens Næringsliv | The Washington Post | Reuters | The Guardian | Il Foglio | Der Spiegel | Il Foglio | Dagbladet Information | The New Statesman | The Guardian | Prospect Magazine | The Financial Times | The Guardian | The New Statesman | Financial Times | The New Statesman | Financial Times | The New Statesman | The Guardian | The New Statesman | BBC News | BBC Daily Politics | Analysis - BBC Radio 4 | The Guardian | The New Statesman | Europa | Jyllands-Posten | The Guardian | BBC World News | The Independent | The Independent | The Economist | The Observer | The Guardian | The Guardian | The Guardian | Europa | The Economist | Die Zeit | Aftonbladet | Dagens Arena | Dagbladet Information | National Post | The Copenhagen Post | Reuters | Chicago Tribune | Jyllands-Posten | Reuters (France) | The Guardian | The Guardian | ABC News | Europa | Europa | Baltimore Sun | Metro News | The Canadian Press (CP) | Frankfurter Allgemeine Zeitung | The Financial Times | The Times | Financial Times | The Guardian | New Statesman | EurActiv | BBC Westminster Hour | Spiegel Online | The Guardian | The Guardian | The Telegraph | Daily Nation | Irish Times | Express | The Independent | Reuters | ITV News | SKY News | Reuters (Latin America) | Que! | dario La Rioja | Expansión | El Diario Vasco | De Morgen | Volkskrant | Le Soir | Le Vif | New York Times | RTBF | 7Sur7 | RTL | Independent | The Telegraph | CNBC.com | Reuters | Reuters | Reuters | Financial Times | The Guardian | Gazeta Wyborcza | Dagbladet Information | New Statesman | Mediapart.fr | The Guardian | The Guardian | The Guardian | Europa | Linkiesta | The Guardian | EuropaPress | La Stampa | Europa | The Guardian | The Times | Financial Times | Europa | Europa | The Guardian | Europa | Analysis: BBC Radio 4 | Arte.tv | The Guardian | El Pais | Irish Times | Irish Times | Irish Times | Europa | Irish Times | The Irish Times | Europa | Le Monde | BBC News | BBC World at One | The Guardian | The Times | Financial Times | BBC Daily Politics | Financial Times | Europa | New Statesman | The Guardian | BBC The Andrew Marr Show | Europa | Telegraph | BBC News | Sky News | The Financial Times | BBC The Westminster Hour | BBC News | The Guardian | Les Echos | The Guardian | New Statesman | The Guardian | De Volkskrant | The Economist | The Guardian | Voice of America | Europa | Independent on Sunday | Libération | BBC Newsnight | The Economist | The Guardian | The Financial Times | The NewStatesman | El Pais | The

	Guardian
www.the-network.com/ 14 words in 8 bold text elements	you | wherever | whenever | one local expert | unrivalled coverage | The **Network** | Belgium | Louise Claeys Bouuaert

Bold texts of competitors for the keyword **networks** contain 44 words in 37 text elements on average.

Page	Bold text
en.wikipedia.org/wiki/Computer_network 29 words in 54 bold text elements	Informational (computing) | computer **network** | data **network** | RFC 1149 | a | b | a | b | 2009 | 16 | 3285 | a | b | a | b | Computer | Telecommunications | Telecommunication · | Computer **network** | Book | Category | Commons | Portal | Wikiquotes
en.wikipedia.org/wiki/Network 4 words in 4 bold text elements	**network** | networking | **Network** | networking
en.wikipedia.org/wiki/Social_network 53 words in 100 bold text elements	Social | social **network** | Dyadic level | Triadic level | Actor level | Subset level | Organizations | Randomly distributed **networks** | Scale-free **networks** | Large-scale **networks** | Complex **networks** | a | b | 323 | a | b | c | 7 | a | b | 81 | a | b | a | b | 73 | 410 | 78 | a | b | c | a | b | c | d | 115 | 14 | 53 | 3 | Social **networks** | Social **networks**
www.webopedia.com/TERM/N/network.html 20 words in 18 bold text elements	(n.) | local-area **networks** (LANs) | wide-area **networks** (WANs) | campus-area **networks** (CANs) | metropolitan-area **networks** MANs) | home-area **networks** (HANs) | topology | protocol | architecture | (v.)
www.arubanetworks.com/uk/ No bold text	-
www.arubanetworks.com/ No bold text	-
onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0037 109 words in 18 bold text elements	INOC 2015 | European **Network** Optimization Group (ENOG) | EURO | INOC 2015 - Call For Papers! | **Networks** | For full details of the INOC Call For Papers - Click Here | We are pleased to announce the winner of 2012 Glover-Klingman Prize: Bidirectional A* search on time-dependent road **networks** | View all the Glover-Klingman Award Winning Papers here | Virtual Issue on **Network** Interdiction Applications and Extensions. | Read all articles contained in this virtual issue! | Mathematicians - take our survey! | short mathematics survey. | Click here to start the survey now! | New Call For Papers! Special Issue: Metaheuristics in **Network** Optimization | 1st August 2014 | Click here to read the full details on the Special Issue: Metaheuristics in **Network** Optimization
www.journals.elsevier.com/computer-networks/ 47 words in 29 bold text elements	Journals | Books | Book types | Related topics | Authors | Editors | Reviewers | Early career researchers | Company info | Press | Elsevier Connect | Products | Subjects | Industries | Special offers | computer communications networking | Communication **Network** Architectures | Communication **Network** Protocols | **Network** Services | Applications | **Network** Security | Privacy | **Network** Operation | Management | Discrete Algorithms | Discrete Modeling | computer communications networking
www.cartoonnetwork.com/ No bold text	-
www.juniper.net/uk/en/ No bold text	-

Bold texts of competitors for the keyword **business networks** contain 98 words in 26 text elements on average.

Page	Bold text
www.theoysterclub.co.uk/ 24 words in 6 bold text elements	read full post | read full post | Black Pearl Dinner | The Seed Pearl Breakfast | The Oyster Club Monthly Meeting | The Oyster Club All Pearls Lunch
www.londonchamber.co.uk/lcc_public/article.asp?aid=3915 529 words in 134 bold text elements	Username | Password | LOGIN | Login help | Password reminder | FREE LONDON CHAMBER OF COMMERCE **BUSINESS** NETWORKING EVENTS | By Invitation Only | Cereal Networking | Changing Places @ Lunchtime | Changing Places | Retail Evenings | International Trade events | Policy events | Local Chamber events | events' calendar | At: | Time: | Nearest Station: | Patron, Premier Plus, Local Members and their guests: | Non-members who have already attended Time To Talk **Business** twice or more: | At | Time | If you are interested in meeting with them and viewing their profiles | E: | mzanfrini@londonchamber.co.uk | T: +44 (0)20 7203 1822 | At | Time | For more information contact | E: | events@londonchamber.co.uk | T: +44 (0)20 7203 1700. | On | At | For more information contact | E: | mzanfrini@londonchamber.co.uk | T: +44 (0)20 7203 1822 | Host Venue | At | Time | Sponsored by | For more information contact | E: events@londonchamber.co.uk | T: +44 (0)20 7203 1700 | Patron Member | Premier Plus Member | Local Member | Members' Guest | A maximum of two places per company are available. To secure your place/s, please click on the below link and complete the online booking form. Telephone and email bookings will not be accepted. | When you are booking place/s on this event, you will be asked the following question: If you do NOT put a TICK in the box(es) provided your name, job title, company and **business** activity will be displayed on the printed guest list. | At | Time | Sponsored by | For more information contact | E: | events@londonchamber.co.uk | T: +44 (0)20 7203 | Patron Member, Premier Plus Member and Members' Guest FREE | Restricted to TWO attendees per Patron Member and Premier Plus Member company. Telephone and email bookings will not be accepted. | At | Time | For more information contact | E: | lsaran.croydon@londonchamber.co.uk | T:+44 (0)20 7556 2393 | Patron, Premier Plus, Local Member, Members' Guest: | Please note: Members' guests are only eligible to attend one Grapevine **Network** event before we invite them to join

	membership. To secure your place/s please click on the link below. Telephone and email bookings will not be accepted. | On | At | For more information contact | E: | mzanfrini@londonchamber.co.uk | T: +44 (0)20 7203 1822 | At: | Time: | For more information contact | E: | lsaran.croydon@londonchamber.co.uk | T: +44 (0)20 7556 2393 | Our Host Venue | At | Time | Sponsored by | For more information contact | E: | events@londonchamber.co.uk | T: +44 (0)20 7203 | 1700 | Patron Member, Premier Plus Member and Member's Guest | A maximum of two places per Member company is available. To secure your place/s, please click on the below link and complete the online booking form. Telephone and email bookings will not be accepted. | At | Time | Nearest Station | Patron, Premier Plus, Local Members and their guests | Non-members who have already attended Time To Talk **Business** twice or more | A maximum of two places per company are available. | At | Time | For more information contact | E: | ewood@londonchamber.co.uk | T: +44 (0)20 7203 1876 | Supported by | Member and Non-member | At | Time | Sponsored by | Events Team, E: | events@londonchamber.co.uk | T: +44 (0)20 7203 1700. | Patron Member, Premier Plus Member and Members' Guest FREE | Restricted to TWO attendees per Patron Member and Premier Plus Member company. Telephone and email bookings will not be accepted. | T: | 44 (0)20 7203 1881 | E: | membersales@londonchamber.co.uk | here | online application form
www.business-network.co.uk/ No bold text	-
findnetworkingevents.com/ 3 words in 2 bold text elements	Featured Events | highlighting
free-business-networking-events.meetup.com/cities/g...7/london/ No bold text	-
en.wikipedia.org/wiki/Business_networking 16 words in 4 bold text elements	does not cite any references or sources | may be confusing or unclear to readers | **Business** networking
www.bl.uk/bipc/busnet/ 8 words in 5 bold text elements	BIPC | Knowledge Peers | Startups | Striding Out | Women Unlimited
www.biznet-uk.org/ No bold text	-
www2.gre.ac.uk/about/schools/business...search/groups/cbna/home 4 words in 1 bold text elements	Five PhD Scholarships available
www.prowess.org.uk/womens-business-networks 99 words in 30 bold text elements	Association of Scottish Businesswomen | **Business** Women's Link | Cambridge Businesswomen's **Network** | East London Creative Women **Business Network** | Fabulous Women | Flying Start | Forward Ladies | Highflying Divas | Networking Women | Norwich **Business** Women's **Network** | Rural Women's **Network** | Sussex Women In **Business** | The Athena **Network** | The Women in **Business Network** | 1230 The Women's Company | Vale Women's **Business Network** | WiRE | Women in **Business** Hull | Women in **Business** NI | Women in **Business** (NW) | Women in Management | Women Mean Biz | WIN | Women Outside The Box | Women Unlimited | Canada | Canada and Ireland | Sign-up for the Newsletter! | You've been here for 3 minutes... why not sign-up for our newsletter?

Italic text details

No italicised text

Italicised texts of competitors for the keyword **network** contain 81 words in 30 elements on average.

Page	Italic text
en.wikipedia.org/wiki/Computer_network 131 words in 47 italicised text elements	Features | Types | packets | family | Twisted pair wire | Coaxial cable | optical fiber | Terrestrial microwave | Communications satellites | Cellular and PCS systems | Radio and spread spectrum technologies | Free-space optical communication | switch | citation needed | Layer 3 switches | Prefix-Length | Metric | Administrative distance | congestive collapse | Hepting v. AT&T | Computer **network** definition | UCLA | a | b | Ethernet The Definitive Guide | Interplanetary Internet | a | b | Resilient Overlay **Networks** | project web site | IEEE **Network** | Computer Networking: A Top-Down Approach | New global standard for fully **networked** home | IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet Task Force | Computer Fraud & Security | Richmond Journal of Law and Technology | Domain names - Implementation and Specification | Teletraffic Engineering Handbook | Lecture Notes in Computer Science | a | b | American Civil Liberties Union | American Civil Liberties Union | a | b | Computer Networking with Internet Protocols and Technology | The Telephone Cases
en.wikipedia.org/wiki/Network_(film) 249 words in 95 italicised text elements	**Network** | **Network** | UBS Evening News | Mao Tse-Tung Hour | The Howard Beale Show | en masse | his | plus | The Howard Beale Show | The Mao Tse-Tung Hour | (January 2013) | The Hospital | **Network** | The New York Times | **Network** | **Network** | Empire | The New Yorker | Time Out | **Network** | **Network** | The Bad and the Beautiful | Mad As Hell | Studio 60 on the Sunset Strip | The Social **Network** | **NETWORK** | United Artists | Journalism in the Movies | robertebert.com | Little Steven's Underground Garage | Empire | **Network** | The New York Times | Rotten Tomatoes | **Network** | **Network** | Empire | The New Yorker | Halliwell's Film Guide, 6th edition | Time Out Film Guide, The (3rd Edition) | The New York Times | **Network** (film) | **Network** | **Network** | **Network** | **Network** | One Flew Over the Cuckoo's Nest | Coming Home | Who's Afraid of Virginia Woolf? | Moonstruck | 12 Angry Men | Stage Struck | That Kind of Woman | The Fugitive Kind | A View from the Bridge | Long Day's Journey Into Night | The Pawnbroker | Fail-Safe | The Hill | The Group | The Deadly Affair | Bye Bye Braverman | The Sea Gull | The Appointment | King: A Filmed Record... Montgomery to Memphis | Last of the Mobile Hot Shots | The Anderson Tapes | Child's Play | The Offence | Serpico | Lovin' Molly | Murder on the Orient Express | Dog Day Afternoon | **Network** | Equus | The Wiz | Just Tell Me What You Want | Prince of the City | Deathtrap | The Verdict | Daniel | Garbo Talks | Power | The Morning After | Running on Empty | Family **Business** | Q

	& A | A Stranger Among Us | Guilty as Sin | Night Falls on Manhattan | Critical Care | Gloria | Strip Search | Find Me Guilty | Before the Devil Knows You're Dead
www.imdb.com/title/tt0074958/ 6 words in 1 italicised text elements	Written by Bruce Janson bruce@cs.su.oz.au>
www.networkrail.co.uk/ No italicised text	-
networkonair.com/ 6 words in 2 italicised text elements	8 hours ago | 8 hours ago
www.webopedia.com/TERM/N/network.html 13 words in 7 italicised text elements	By Vangie Beal | Ethernet | IBM token-ring **network** | peer-to-peer | client/server architecture | nodes | servers
www.transitionnetwork.org/ No italicised text	-
www.network-railcard.co.uk/ No italicised text	-
www.policy-network.net/ No italicised text	-
www.the-network.com/ No italicised text	-

Italicised texts of competitors for the keyword **networks** contain 93 words in 28 elements on average.

Page	Italic text
en.wikipedia.org/wiki/Computer_network 131 words in 47 italicised text elements	Features | Types | packets | family | Twisted pair wire | Coaxial cable | optical fiber | Terrestrial microwave | Communications satellites | Cellular and PCS systems | Radio and spread spectrum technologies | Free-space optical communication | switch | citation needed | Layer 3 switches | Prefix-Length | Metric | Administrative distance | congestive collapse | Hepting v. AT&T | Computer **network** definition | UCLA | a | b | Ethernet The Definitive Guide | Interplanetary Internet | a | b | Resilient Overlay **Networks** | project web site | IEEE **Network** | Computer Networking: A Top-Down Approach | New global standard for fully **networked** home | IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet Task Force | Computer Fraud & Security | Richmond Journal of Law and Technology | Domain names - Implementation and Specification | Teletraffic Engineering Handbook | Lecture Notes in Computer Science | a | b | American Civil Liberties Union | American Civil Liberties Union | a | b | Computer Networking with Internet Protocols and Technology | The Telephone Cases
en.wikipedia.org/wiki/Network 9 words in 8 italicised text elements	**network** | networking | **Network** | **Network** | **Network** | Thomas | net_work | **Network**
en.wikipedia.org/wiki/Social_network 389 words in 99 italicised text elements	Outline | History | Features | Types | Gemeinschaft | Gesellschaft | a | b | Social **Network** Analysis: Methods and Applications | Organizations and Organizing | The Development of Social **Network** Analysis: A Study in the Sociology of Science | Science | **Networks**, Crowds, and Markets: Reasoning about a Highly Connected World | a | b | c | Social **Network** Analysis: A Handbook | Gemeinschaft und Gesellschaft | Community and Society | De la division du travail social: étude sur l'organisation des sociétés supérieures | The Division of Labor in Society, | Soziologie | The Sage Handbook of Social **Network** Analysis | Social **Network** Analysis: A Handbook | The Family Among the Australian Aborigines: A Sociological Study | The social organization of Australian tribes | Oceania | Les structures élémentaires de la parenté | The Elementary Structures of Kinship | Human Relations | Connections | The Sociological Review | The Structure of Social Action: A Study in Social Theory with Special Reference to a Group of European Writers | The Social System | Bureaucracy in Modern Society | The American Journal of Sociology | Exchange and Power in Social Life | Sociologica | Social Structures: A **Network** Approach | Nature Physics | Contemporary Sociology | Social **network** analysis : methods and applications | a | b | American Journal of Sociology | a | b | Journal of Organizational Behavior | "Graph Theoretical Approaches to Social **Network** Analysis." in Computational Complexity: Theory, Techniques, and Applications (Robert A. Meyers, ed.) | American Journal of Sociology | a | b | Political Analysis | Physical Review E | Nature | Social **networks** and organisations | American Journal of Sociology | a | b | c | American Journal of Sociology | a | b | c | d | Structural Holes: The Social Structure of Competition | Principles of Political Economy | Harvard **Business** School Review | Administrative Science Quarterly | American Journal of Sociology | The Journal of Economic Perspectives | Social **Networks** and Health | Ecology and Society | Resilience Science | Journal of Applied Psychology | Journal of Computer-Mediated Communication | American Behavioral Scientist | Journal of Computer-Mediated Communication | Social Structures: A **Network** Approach | Social **Network** Analysis: a handbook | Social **Network** Analysis: Methods and Applications | Linked: How everything is connected to everything else and what it means for **business**, science, and everyday life | The Development of Social **Network** Analysis: A Study in the Sociology of Science | Encyclopedia of Social **Networks** | Understanding Social **Networks**: Theories, Concepts, and Findings | **Networked**: The New Social Operating System. | The Structure of Complex **Networks**: Theory and Applications | Ad-hoc-Social-**Network**-A-Comprehensive-Survey | Social **Networks** | **Network** Science | Journal of Social Structure | Journal of Mathematical Sociology | Social **Network** Analysis and Mining (SNAM) | Connections | **Networks**, Crowds, and Markets | Introduction to Social **Networks** Methods | Social **networks** | list | Geisteswissenschaft
www.webopedia.com/TERM/N/network.html 13 words in 7 italicised text elements	By Vangie Beal | Ethernet | IBM token-ring **network** | peer-to-peer | client/server architecture | nodes | servers
www.arubanetworks.com/uk/ No italicised text	-
www.arubanetworks.com/ No italicised text	-

onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0037 12 words in 7 italicised text elements	**Networks** | A* | Giacomo Nannicini, Daniel Delling, Dominik Schultes, Leo Liberti | **Networks** | **Networks**
www.journals.elsevier.com/computer-networks/ 4 words in 2 italicised text elements	Computer **Networks** | Computer **Networks**
www.cartoonnetwork.com/ No italicised text	-
www.juniper.net/uk/en/ No italicised text	-

Italicised texts of competitors for the keyword **business networks** contain 44 words in 5 elements on average.

Page	Italic text
www.theoysterclub.co.uk/ No italicised text	-
www.londonchamber.co.uk/lcc_public/article.asp?aid=3915 116 words in 2 italicised text elements	When we were first approached to join we were a little skeptical as to how useful the networking would actually be. However we have found all the sessions really well organised and a genuine opportunity for us to develop contacts and practice our skills. It is particularly beneficial that the membership is for the whole company not just an individual, as this has allowed all of our management team to attend sessions of particular relevance/interest for them. - Liz Live Z-Card Ltd | A maximum of two places per company are available. To secure your place/s, please click on the below link and complete the online booking form. Telephone and email bookings will not be accepted.
www.business-network.co.uk/ 68 words in 20 italicised text elements	Affiliate | The **Business Network** Liverpool Launching 16th October | Read More... | Click here to learn more | TMS12 Ltd | Red Hall | The Chester Grosvenor | The Gateway Suite - Derbyshire County Cricket Club | The Hallmark Hotel, North Ferriby | Lancaster House Hotel | Jacosta's | Thistle Liverpool City Centre - Atlantic Tower | Hotel Russell | Macdonald Manchester Hotel | Trent Bridge - Nottingham | Stanley House | Aldwickbury Park Golf Club | Pinewood on Wilmslow | Abbys Upstairs, Grimsby | The Mere Resort & Hotel
findnetworkingevents.com/ 10 words in 3 italicised text elements	Women in **Business Network** | Vibrant **Network** | Events for Dynamic Women
free-business-networking-events.meetup.com/cities/g...7/london/ 0 words in 6 italicised text elements	-
en.wikipedia.org/wiki/Business_networking 19 words in 6 italicised text elements	(June 2014) | Networking' | (June 2014) | citation needed | The Display Hub by Display Wizard | **Business** networking: shaping collaboration between enterprises
www.bl.uk/bipc/busnet/ No italicised text	-
www.biznet-uk.org/ 0 words in 1 italicised text elements	-
www2.gre.ac.uk/about/schools/business...search/groups/cbna/home 6 words in 1 italicised text elements	Summer School in Social **Network** Analysis
www.prowess.org.uk/womens-business-networks 0 words in 4 italicised text elements	-

Link anchor text details

45 words in 34 anchor texts

become a member now | member login | Forgot your password? | First Class Networking | No events in your basket | Home | Join | Book an event | Members directory | Venues | About | FAQs | Testimonials | Contact | Advertisement | All | Champagne Breakfast | Lunch | Evening | Built Environment Breakfast | Back to top | X | Advertise | Legal | webstars*

Anchor texts of competitors for the keyword **network** contain 913 words in 384 anchors on average.

Page	Link anchor text
	navigation | search | **Network** science | Internet map 1024.jpg | Theory | Graph | Complex **network** | Contagion | Small-world | Scale-free | Community structure | Percolation | Evolution | Controllability | Graph drawing | Social capital | Link analysis | Optimization | Reciprocity | Closure | Homophily | Transitivity | Preferential attachment | Balance theory | **Network** effect | Social influence | Telecommunication | Social | Biological | Artificial neural | Interdependent | Semantic | Random graph | Spatial | Dependency | Flow | Graphs | Clique | Component | Cut | Cycle | Data structure | Edge | Loop | Neighborhood | Path | Vertex | Adjacency list | matrix | Incidence list | matrix | Bipartite | Complete | Directed | Hyper | Multi | Random | Weighted | Metrics | Algorithms | Centrality | Degree | Betweenness | Closeness | PageRank | Motif | Clustering | Degree distribution | Assortativity | Distance | Modularity | Random graph | Erdős–Rényi | Barabási–Albert | Watts–Strogatz | Exponential random (ERGM) | Epidemic | Hierarchical | Topics | Software | **Network** scientists | Graph theory | **Network** theory | v | t | e |

telecommunications **network** | computers | data | **network** links | cable media | wireless media | Internet | **network** nodes | [1] | hosts | personal computers | phones | servers | networking hardware | applications | World Wide Web | application and storage servers | printers | email | instant messaging | physical media | communications protocols | topology | 1 History | 2 Properties | 3 **Network** packet | 4 **Network** topology | 4.1 **Network** links | 4.1.1 Wired technologies | 4.1.2 Wireless technologies | 4.1.3 Exotic technologies | 4.2 **Network** nodes | 4.2.1 **Network** interfaces | 4.2.2 Repeaters and hubs | 4.2.3 Bridges | 4.2.4 Switches | 4.2.5 Routers | 4.2.6 Modems | 4.2.7 Firewalls | 4.3 **Network** structure | 4.3.1 Common layouts | 4.3.2 Overlay **network** | 5 Communications protocols | 5.1 Ethernet | 5.2 Internet Protocol Suite | 5.3 SONET/SDH | 5.4 Asynchronous Transfer Mode | 6 Geographic scale | 7 Organizational scope | 7.1 Intranets | 7.2 Extranet | 7.3 Internetwork | 7.4 Internet | 7.5 Darknet | 8 Routing | 9 **Network** service | 10 **Network** performance | 10.1 Quality of service | 10.2 **Network** congestion | 10.3 **Network** resilience | 11 Security | 11.1 **Network** security | 11.2 **Network** surveillance | 11.3 End to end encryption | 12 Views of **networks** | 13 See also | 14 References | 15 Further reading | 16 External links | edit | History of the Internet | public switched telephone **network** | Semi-Automatic Ground Environment | semi-automatic **business** research environment | J.C.R. Licklider | Intergalactic Computer **Network** | ARPANET | Advanced Research Projects Agency | Dartmouth Time Sharing System | Massachusetts Institute of Technology | General Electric | Bell Labs | Leonard Kleinrock | Paul Baran | Donald Davies | packets | Lawrence G. Roberts | wide area **network** | ARPANET | telephone switch | Western Electric | University of California at Los Angeles | Stanford Research Institute | University of California at Santa Barbara | University of Utah | ARPANET | [2] | X.25 | TCP/IP | Robert Metcalfe | Xerox PARC | Ethernet | Aloha **network** | Norman Abramson | University of Hawaii | Robert Metcalfe | David Boggs | [3] | [4] | Datapoint Corporation | ARCNET | [4] | edit | electrical engineering | telecommunications | computer science | information technology | computer engineering | Distributed computing | computer Crackers | computer viruses | computer worms | denial of service | edit | **Network** packet | data | packet-switched **network** | point-to-point telecommunications links | bit stream | bandwidth | circuit switched | payload | **network** addresses | error detection | headers | trailers | edit | **Network** topology | edit | electrical cable | HomePNA | power line communication | G.hn | optical fiber | fiber-optic communication | radio waves | wireless networking | OSI model | LAN | Ethernet | IEEE 802.3 | IEEE 802.11 | radio waves | infrared | Power line communication | edit | Fiber optic cables | Twisted pair | Ethernet | IEEE 802.3 | crosstalk | electromagnetic induction | Coaxial cable | ITU-T | G.hn | home wiring | coaxial cable | power lines | optical fiber | undersea cables | [5] | edit | Wireless **network** | microwave | satellites | Cellular | spread spectrum | IEEE 802.11 | Wifi | Free-space optical communication | line-of-sight propagation | edit | IP over Avian Carriers | Request for Comments | RFC 1149 | [6] | [7] | round-trip delay time | edit | Node (networking) | system | **network** interface controller | repeaters | hubs | bridges | switches | routers | modems | firewalls | edit | ATM | **network** interface controller | computer hardware | **network** address | Ethernet | Media Access Control | Institute of Electrical and Electronics Engineers | octets | edit | repeater | electronic | signal | retransmitted | hub | propagation delay | 5-4-3 rule | edit | **network** bridge | **network** segments | data link layer | OSI model | edit | **network** switch | OSI layer 2 | datagrams | ports | [8] | [9] | Multi-layer switches | URL | edit | ADSL | Ethernet | router | packets | edit | Modems | Digital Subscriber Line | edit | firewall | cyber attacks | edit | **Network** topology | edit | bus **network** | Ethernet | 10BASE5 | 10BASE2 | star **network** | Wireless LAN | Wireless access point | ring **network** | Fiber Distributed Data Interface | mesh **network** | fully connected **network** | tree **network** | FDDI | edit | overlay **network** | peer-to-peer | [10] | modems | telephone **network** | [10] | Address resolution | routing | distributed hash table | map | quality of service | streaming media | IntServ | DiffServ | IP Multicast | routers | citation needed | Internet service providers | Akamai Technologies | multicast | [11] | edit | Protocols in relation to the Internet layering scheme. | communications protocol | protocol stack | OSI model | HTTP | TCP | IP | IEEE 802.11 | Internet Protocol Suite | Ethernet | wireless router | [12] | [13] | TCP | IPv4 header | **network** layer | transport layer | connection-oriented | connectionless | circuit mode | packet switching | edit | Ethernet | IEEE 802 | Institute of Electrical and Electronics Engineers | OSI model | IEEE 802.11 | Wireless LAN | IEEE 802 | MAC | bridging | IEEE 802.1D | Spanning Tree Protocol | IEEE 802.1Q | VLANs | IEEE 802.1X | **Network** Access Control | edit | Internet Protocol Suite | Internet protocol | Internet Protocol Version 4 | edit | Synchronous optical networking | multiplexing | circuit-switched | PCM | Asynchronous Transfer Mode | edit | Asynchronous Transfer Mode | time-division multiplexing | cells | Internet Protocol Suite | Ethernet | frames | circuit | packet | low-latency | connection-oriented | virtual circuit | next-generation **networks** | last mile | Internet service provider | [14] | edit | personal area **network** | [15] | local area **network** | node | Ethernet | ITU-T | G.hn | [16] | **network** layer | subnets | router | Internet Protocol | Internet | wide area **network** | data transfer rates | leased lines | IEEE 802.3 | IEEE | [17] | router | home area **network** | digital subscriber line | storage area **network** | campus area **network** | Cat5 | backbone **network** | **network** performance | **network** congestion | Internet backbone | wide area **networks** | core routers | Internet | Metropolitan area **network** | wide area **network** | OSI reference model | physical layer | data link layer | **network** layer | enterprise private **network** | virtual private **network** | global area **network** | wireless LANs | [18] | edit | Internet | edit | intranet | IP | edit | extranet | edit | internetwork | edit | opte.org | IP addresses | Class C | Internet | Internet Protocol Suite | Advanced Research Projects Agency **Network** | DARPA | United States Department of Defense | World Wide Web | IP addresses | Internet Assigned Numbers Authority | address registries | reachability | Border Gateway Protocol | edit | Darknet | F2F | [19] | protocols | ports | peer-to-peer | sharing | IP addresses | [20] | edit | Routing | circuit switching | packet switched **networks** | packet forwarding | **network** packets | nodes | routers | bridges | gateways | firewalls | switches | computers | routing tables | memory | Multipath routing | Administrative distance | bridging | **network** addresses | edit | **Network** services | servers | provide some functionality | World Wide Web | E-mail | [21] | printing | **network** file sharing | Domain Name System | IP | MAC addresses | [22] | DHCP | [23] | service protocol | edit | edit | **network** performance | quality of service | throughput | jitter | bit error rate | latency | packet-switched **network** | circuit switched | grade of service | [24] | Asynchronous Transfer Mode | quality of service | [25] | [26] | edit | **Network** congestion | quality of service | queueing delay | packet loss | blocking | offered load | throughput | **Network** protocols | retransmissions | congestion control | congestion avoidance | exponential backoff | 802.11 | CSMA/CA | Ethernet | window | TCP | fair queueing | routers | 802.1p | ITU-T | G.hn | Local area networking | RFC 2914 | edit | **Network** resilience | service | faults | [27] | edit | edit | **Network** security | policies | **network** administrator | unauthorized | [28] | edit | **Network** surveillance | Internet | social control | criminal | Total Information Awareness | high speed surveillance computers | biometrics | Communications Assistance For Law Enforcement Act | [29] | civil rights | privacy | Reporters Without Borders | Electronic Frontier Foundation | American Civil Liberties Union | mass surveillance | Hepting v. AT&T | [29] | [30] | hacktivist | Anonymous | [31] | [32] | edit | End-to-end encryption | digital communications | encrypting | Internet providers | application service providers | confidentiality | integrity | PGP | email | OTR | instant messaging | ZRTP | telephony | TETRA | server | clients | servers | Google Talk | Yahoo Messenger | Facebook | Dropbox | back door | encryption key | Skype | technical exploitation | clients | random number generators | key escrow | traffic analysis | edit | community of interest | peer-to-peer | routers | bridges | application layer gateways | subnets | virtual LAN (VLAN) | intranet | [33] | extranet | [33] | Internet Service Providers | Internet | IP address | Border Gateway Protocol | human-readable | Domain Name System | **business**-to-**business** (B2B) | **business**-to-consumer (B2C) | consumer-to-consumer (C2C) | communications security | Virtual Private **Network** | edit | Comparison of **network** diagram software | Cyberspace | History of the Internet | **Network** simulation | Virtual reality | Virtual world | edit | Computer **network** definition | "Internet Began 35 Years Ago at UCLA with First Message Ever Sent Between Two Computers" | UCLA | the original | Ethernet: Distributed Packet Switching for Local Computer **Networks** | a | b | ISBN | 1-56592-660-9 | [1] | "Bergen Linux User Group's CPIP Implementation" | Interplanetary Internet | "Define switch." | http://compnetworking.about.com/cs/internetworking/g/bldef_bridge.htm | a | b | R. Morris | Resilient Overlay **Networks** | Association for Computing Machinery | "End System Multicast" | "Design

en.wikipedia.org/wiki/Computer_network
2883 words in 1695 anchor texts

Principles for DSL-Based Access Solutions" | "personal area **network** (PAN)" | New global standard for fully **networked** home | IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet Task Force | "Mobile Broadband Wireless connections (MBWA)" | doi | 10.1016/S1361-3723(09)70150-2 | "The Darknet: A Digital Copyright Revolution" | RFC 1035 | Computer **Networks**: A Systems Approach | Teletraffic Engineering Handbook | the original | Telecommunications Magazine Online | "State Transition Diagrams" | "Definitions: Resilience" | doi | 10.1007/978-3-540-30176-9_41 | ISBN | 978-3-540-23659-7 | help | a | b | "Is the U.S. Turning Into a Surveillance Society?" | "Bigger Monster, Weaker Chains: The Growth of an American Surveillance Society" | "Anonymous hacks UK government sites over 'draconian surveillance' " | Hacktivists in the frontline battle for the internet | a | b | RFC 2547 | public domain material | General Services Administration | "Federal Standard 1037C" | edit | William Stallings | Important publications in computer **networks** | edit | Networking | DMOZ | IEEE Ethernet manufacturer information | v | t | e | Telecommunications | History | Beacon | Broadcasting | Communications satellite | Computer **network** | Drums | Electrical telegraph | Fax | Heliographs | Hydraulic telegraph | Internet | Mass media | Mobile phone | Optical telecommunication | Optical telegraphy | Photophone | Prepaid mobile phone | Radio | Radiotelephone | Satellite communications | Smoke signals | Telecommunications history | Telegraphy | Telephone | The Telephone Cases | Television | Timeline of communication technology | Undersea telegraph line | Videoconferencing | Videophone | Videotelephony | Telecommunications symbol | Edwin Howard Armstrong | John Logie Baird | Alexander Graham Bell | Tim Berners-Lee | Jagadish Chandra Bose | Vint Cerf | Claude Chappe | Lee de Forest | Philo Farnsworth | Reginald Fessenden | Elisha Gray | Guglielmo Marconi | Alexander Stepanovich Popov | Johann Philipp Reis | Nikola Tesla | Camille Papin Tissot | Alfred Vail | Charles Wheatstone | Vladimir K. Zworykin | Transmission media | Coaxial cable | Free-space optical | Optical fiber | Radio waves | Telephone lines | Terrestrial microwave | **Network** topology | Links | Nodes | Terminal node | **Network** switching | circuit | packet | Telephone exchange | Multiplexing | Space-division | Frequency-division | Time-division | Polarization-division | Orbital angular-momentum | Code-division | **Networks** | ARPANET | BITNET | Ethernet | FidoNet | Internet | ISDN | LAN | Mobile | NGN | Public Switched Telephone | Radio | Telecommunications equipment | Television | Telex | WAN | Wireless | World Wide Web | v | t | e | Sovereign states | Algeria | Angola | Benin | Botswana | Burkina Faso | Burundi | Cameroon | Cape Verde | Central African Republic | Chad | Comoros | Democratic Republic of the Congo | Republic of the Congo | Djibouti | Egypt | Equatorial Guinea | Eritrea | Ethiopia | Gabon | The Gambia | Ghana | Guinea | Guinea-Bissau | Ivory Coast (Côte d'Ivoire) | Kenya | Lesotho | Liberia | Libya | Madagascar | Malawi | Mali | Mauritania | Mauritius | Morocco | Mozambique | Namibia | Niger | Nigeria | Rwanda | São Tomé and Príncipe | Senegal | Seychelles | Sierra Leone | Somalia | South Africa | South Sudan | Sudan | Swaziland | Tanzania | Togo | Tunisia | Uganda | Zambia | Zimbabwe | States with limited recognition | Sahrawi Arab Democratic Republic | Somaliland | Dependencies | Canary Islands | Ceuta | Melilla | Plazas de soberanía | Madeira | Mayotte | Réunion | Saint Helena | Ascension Island | Tristan da Cunha | Western Sahara | v | t | e | Sovereign states | Afghanistan | Armenia | Azerbaijan | Bahrain | Bangladesh | Bhutan | Brunei | Burma (Myanmar) | Cambodia | China | Cyprus | East Timor (Timor-Leste) | Egypt | Georgia | India | Indonesia | Iran | Iraq | Israel | Japan | Jordan | Kazakhstan | North Korea | South Korea | Kuwait | Kyrgyzstan | Laos | Lebanon | Malaysia | Maldives | Mongolia | Nepal | Oman | Pakistan | Philippines | Qatar | Russia | Saudi Arabia | Singapore | Sri Lanka | Syria | Tajikistan | Thailand | Turkey | Turkmenistan | United Arab Emirates | Uzbekistan | Vietnam | Yemen | States with limited recognition | Abkhazia | Nagorno-Karabakh | Northern Cyprus | Palestine | South Ossetia | Taiwan | Dependencies | British Indian Ocean Territory | Christmas Island | Cocos (Keeling) Islands | Hong Kong | Macau | v | t | e | Telecommunications in Europe | Sovereign states | Albania | Andorra | Armenia | Austria | Azerbaijan | Belarus | Belgium | Bosnia and Herzegovina | Bulgaria | Croatia | Cyprus | Czech Republic | Denmark | Estonia | Finland | France | Georgia | Germany | Greece | Hungary | Iceland | Ireland | Italy | Kazakhstan | Latvia | Liechtenstein | Lithuania | Luxembourg | Macedonia | Malta | Moldova | Monaco | Montenegro | Netherlands | Norway | Poland | Portugal | Romania | Russia | San Marino | Serbia | Slovakia | Slovenia | Spain | Sweden | Switzerland | Turkey | Ukraine | United Kingdom | States with limited recognition | Abkhazia | Kosovo | Nagorno-Karabakh | Northern Cyprus | South Ossetia | Transnistria | Dependencies | Åland | Faroe Islands | Gibraltar | Guernsey | Jersey | Isle of Man | Svalbard | European Union | v | t | e | Antigua and Barbuda | Bahamas | Barbados | Belize | Canada | Costa Rica | Cuba | Dominica | Dominican Republic | El Salvador | Grenada | Guatemala | Haiti | Honduras | Jamaica | Mexico | Nicaragua | Panama | Saint Kitts and Nevis | Saint Lucia | Saint Vincent and the Grenadines | Trinidad and Tobago | United States | Anguilla | Aruba | Bermuda | Bonaire | British Virgin Islands | Cayman Islands | Curaçao | Greenland | Guadeloupe | Martinique | Montserrat | Navassa Island | Puerto Rico | Saint Barthélemy | Saint Martin | Saint Pierre and Miquelon | Saba | Sint Eustatius | Sint Maarten | Turks and Caicos Islands | United States Virgin Islands | v | t | e | Sovereign states | Australia | East Timor | Fiji | Kiribati | Marshall Islands | Federated States of Micronesia | Nauru | New Zealand | Palau | Papua New Guinea | Samoa | Solomon Islands | Tonga | Tuvalu | Vanuatu | Associated states of New Zealand | Cook Islands | Niue | Dependencies | American Samoa | Christmas Island | Cocos (Keeling) Islands | Easter Island | French Polynesia | Guam | Hawaii | New Caledonia | Norfolk Island | Northern Mariana Islands | Pitcairn Islands | Tokelau | Wallis and Futuna | v | t | e | Sovereign states | Argentina | Bolivia | Brazil | Chile | Colombia | Ecuador | Guyana | Paraguay | Peru | Suriname | Uruguay | Venezuela | Dependencies | Falkland Islands | French Guiana | South Georgia and the South Sandwich Islands | Telecommunications | Telecommunication | Telecommunication | v | t | e | Operating system | Advocacy | Comparison | History | Hobbyist development | List | Timeline | Usage share | Kernel | Architectures | Exokernel | Hybrid | Microkernel | Monolithic | Device driver | Loadable kernel module | Microkernel | User space | Process management | Context switch | Interrupt | IPC | Process | Process control block | Thread | Time-sharing | Scheduling algorithms | Computer multitasking | Fixed-priority preemptive | Multilevel feedback queue | Preemptive | Round-robin | Shortest job next | Memory management | resource | Bus error | General protection fault | Memory protection | Paging | Security rings | Segmentation fault | Virtual memory | Storage | file systems | Boot loader | Defragmentation | Device file | File attribute | Inode | Journal | Partition | Virtual file system | Virtual tape library | List | AmigaOS | Android | BeOS | BSD | DOS | GNU Hurd | iOS | Linux | Mac OS | MorphOS | OpenVMS | OS/2 | OSv | QNX | ReactOS | RISC OS | Solaris | TPF | Unix | VM/CMS | Windows | z/OS | API | HAL | Live CD | Live USB | OS shell | CLI | GUI | TUI | VUI | PXE | v | t | e | Technology | Outline of technology | Outline of applied science | Agriculture | Agricultural engineering | Aquaculture | Fisheries science | Food chemistry | Food engineering | Food microbiology | Food technology | GURT | ICT | Nutrition | Biomedical | Bioinformatics | Biological engineering | Biomechatronics | Biomedical engineering | Biotechnology | Cheminformatics | Genetic engineering | Healthcare science | Medical research | Medical technology | Nanomedicine | Neuroscience | Neurotechnology | Pharmacology | Reproductive technology | Tissue engineering | Buildings | Construction | Acoustical engineering | Architectural engineering | Building services engineering | Civil engineering | Construction engineering | Domestic technology | Facade engineering | Fire protection engineering | Safety engineering | Sanitary engineering | Structural engineering | Educational | Educational software | Digital technologies in education | ICT in education | Impact | Multimedia learning | Virtual campus | Virtual education | Energy | Nuclear engineering | Nuclear technology | Petroleum engineering | Soft energy technology | Environmental | Clean technology | Clean coal technology | Ecological design | Ecological engineering | Ecotechnology | Environmental engineering | Environmental engineering science | Green building | Green nanotechnology | Landscape engineering | Renewable energy | Sustainable design | Sustainable engineering | Industrial | Automation | **Business** informatics | Engineering management | Enterprise engineering | Financial engineering | Industrial biotechnology | Industrial engineering | Metallurgy | Mining engineering | Productivity improving technologies | Research and development | IT and communications | Artificial intelligence | Broadcast engineering | Computer engineering | Computer science | Information technology | Music technology | Ontology engineering | RF

engineering | Software engineering | Telecommunications engineering | Visual technology | Web engineering | Military | Army engineering maintenance | Electronic warfare | Military communications | Military engineering | Stealth technology | Transport | Aerospace engineering | Automotive engineering | Naval architecture | Space technology | Traffic engineering | Transport engineering | applied sciences | Cryogenics | Electro-optics | Electronics | Engineering geology | Engineering physics | Hydraulics | Materials science | Microfabrication | Nanoengineering | engineering | fields | Audio | Biochemical | Ceramic | Chemical | Polymer | Control | Electrical | Electronic | Entertainment | Geotechnical | Hydraulic | Mechanical | Mechatronics | Optical | Protein | Quantum | Robotics | Animatronics | Systems | Infrastructure | Invention | Timeline | Knowledge | Machine | Skill | Craft | Tool | Gadget | Femtotechnology | Picotechnology | Nanotechnology | Microtechnology | Macro-engineering | Megascale engineering | History | Prehistoric technology | Neolithic Revolution | Ancient technology | Medieval technology | Renaissance technology | Industrial Revolution | Second | Jet Age | Digital Revolution | Information Age | Theories | Appropriate technology | Critique of technology | Diffusion of innovations | Disruptive innovation | Dual-use technology | Ephemeralization | Ethics of technology | High tech | Hype cycle | Low-technology | Mature technology | Philosophy of technology | Strategy of Technology | Technicism | Techno-progressivism | Technocapitalism | Technocentrism | Technocracy | Technocriticism | Technoetic | Technoethics | Technogaianism | Technological alliance | Technological apartheid | Technological change | Technological convergence | Technological determinism | Technological escalation | Technological evolution | Technological fix | Technological innovation system | Technological momentum | Technological nationalism | Technological paradigm | Technological rationality | Technological revival | Technological revolution | Technological self-efficacy | Technological singularity | Singularitarianism | Technological somnambulism | Technological transitions | Technological unemployment | Technological utopianism | Technology lifecycle | Technology acceptance model | Technology adoption lifecycle | Technomancy | Technorealism | Technoromanticism | Technoscience | Transhumanism | Emerging technologies | List | Fictional technology | Technopaganism | High-technology **business** districts | Kardashev scale | List of technologies | Science, technology and society | Technology dynamics | Science and technology | Science and technology by country | STEM fields | Pre-STEM | women | STEAM fields | Technology alignment | Technology assessment | Technology brokering | Technology companies | Technology demonstration | Technology education | Technical universities and colleges | Technology evangelist | Technology fusion | Technology governance | Technology integration | Technology journalism | Technology management | Technology policy | Technology shock | Technology strategy | Technology and society | Technology transfer | Technophilia | Technophobia | Technoself | Technosignature | Technostress | Book | Category | Commons | Portal | Wikiquotes | http://en.wikipedia.org/w/index.php?title=Computer_**network**&oldid= 623818468 | Categories | Computer **networks** | Computer networking | Telecommunications engineering | Pages containing cite templates with deprecated parameters | All articles with unsourced statements | Articles with unsourced statements from August 2010 | Wikipedia articles incorporating text from the Federal Standard 1037C | Articles with DMOZ links | Create account | Log in | Article | Talk | Read | Edit | View history | Main page | Contents | Featured content | Current events | Random article | Donate to Wikipedia | Wikimedia Shop | Help | About Wikipedia | Community portal | Recent changes | Contact page | What links here | Related changes | Upload file | Special pages | Permanent link | Page information | Wikidata item | Cite this page | Create a ??????? | Az?rbaycanca | | ??????? | book | Download as PDF | Printable version | Afrikaans | ???? ????? | Bân-lâm-gú | ?????????? | ?????????? (???????????) | ????????? | Bosanski | ??? | Brezhoneg | Català | ?eština | Dansk | Deutsch | Eesti | ???????? | Español | Esperanto | Euskara Français | Gaeilge | Galego | ??????? | ??? | ??????? | ?????? | Hrvatski | Bahasa Indonesia | | ?? ??????? | ??????? | Kiswahili | Kurdî | ???????? | Latviešu | | ????? | Interlingua | Íslenska | Italiano Lëtzebuergesch | Lietuvi? | Limburgs | Magyar | ?????????? | ?????? | ????????? | Bahasa Melayu | Mirandés | ?????? | ?????????? | Nederlands | ??? | Norsk bokmål | Norsk nynorsk | Occitan | ???? Plattdüütsch | Polski | Português | Român? | Runa Simi | ??????? | ???? | ????? | O?zbekcha | ?????? srpski |/ ?????? | ????? | | Scots | Shqip | ????? | Simple English | Sloven?ina | Slovenš?ina ?????????????? | Suomi | Svenska | Tagalog | ????? | ?????? | ??? | ?????? |/ Srpskohrvatski ?? | Edit links | Creative Commons Attribution- | ?????? | Ti?ng Vi?t | ???? | Türkçe | ?????????? ShareAlike License | Terms of Use | Privacy Policy | Wikimedia Foundation, Inc. | Privacy policy | About Wikipedia | Disclaimers | Contact Wikipedia | Developers | Mobile view | Wikimedia Foundation | Powered by MediaWiki

en.wikipedia.org/wiki/Network_(film)
1001 words in 419 anchor texts

navigation | search | Networkmovie.jpg | Sidney Lumet | Fred C. Caruso | Paddy Chayefsky | Faye Dunaway | William Holden | Peter Finch | Robert Duvall | Lee Richardson | Elliot Lawrence | Owen Roizman | Metro-Goldwyn-Mayer | United Artists | United Artists | [1] | [2] | satirical | Paddy Chayefsky | Sidney Lumet | television **network** | ratings | Faye Dunaway | William Holden | Peter Finch | Robert Duvall | Wesley Addy | Ned Beatty | Beatrice Straight | Academy Awards | Best Actor | Best Actress | Best Supporting Actress | Best Original Screenplay | preservation | National Film Registry | Library of Congress | 2002 | Producers Guild of America | [3] | screenplays | Writers Guild of America, East | 100 greatest American films | American Film Institute | ten years earlier | 1 Plot | 2 Cast | 3 Production | 4 Release | 4.1 Critical reception | 5 Awards and honors | 5.1 Academy Awards | 5.2 Golden Globes | 5.3 BAFTA Awards | 5.4 American Film Institute | 6 In popular culture | 7 References | 8 External links | edit | Howard Beale | anchor | Union Broadcasting System | [4] | radical terrorists | Symbionese Liberation Army | Mao Tse-Tung | Saudi Arabian | conglomerate | the White House | cosmology | populist | edit | Faye Dunaway | William Holden | Peter Finch | Howard Beale | Robert Duvall | Wesley Addy | Ned Beatty | Beatrice Straight | Jordan Charney | William Prince | Lane Smith | Marlene Warfield | Conchata Ferrell | Arthur Burghardt | Darryl Hickman | Lee Richardson | Kathy Cronkite | Walter Cronkite | Lance Henriksen | Ken Kercheval | Tim Robbins | [5] | [6] | edit | verification | improve this article | adding citations to reliable sources | Christine Chubbuck | [7] | NBC | Lin Bolen | [8] | [9] | United Artists | The Hospital | ABC | MGM | edit | New York City | wide release | edit | Vincent Canby | The New York Times | [10] | Rotten Tomatoes | [11] | Roger Ebert | [12] | Jerry Springer | Howard Stern | World Wrestling Federation | [13] | Empire | [14] | Pauline Kael | The New Yorker | [15] | Michael Billington | [16] | Chris Petit | Time Out | [17] | edit | edit | Best Actor | Peter Finch | Best Actress | Faye Dunaway | Best Supporting Actress | Beatrice Straight | Best Writing, Screenplay Written Directly for the Screen | Paddy Chayefsky | Heath Ledger | Best Supporting Actor | Gloria Grahame | The Bad and the Beautiful | [18] | Best Actor | William Holden | Best Supporting Actor | Ned Beatty | Best Cinematography | Owen Roizman | Best Film Editing | Alan Heim | Best Director | Sidney Lumet | Best Picture | edit | Best Actor in a Motion Picture – Drama | Best Actress in a Motion Picture – Drama | Best Director | Best Screenplay | Best Motion Picture – Drama | edit | Best Actor | Best Film | Best Direction | Best Actor | Best Actress | Best Supporting Actor | Robert Duvall | Best Screenplay | Best Editing | Best Sound | Dick Vorisek | edit | AFI's 100 Years...100 Movies | AFI's 100 Years...100 Laughs | AFI's 100 Years...100 Heroes & Villains | AFI's 100 Years...100 Movie Quotes | AFI's 100 Years...100 Movies (10th Anniversary Edition) | edit | Mad As Hell | Shaun Micallef | [19] | Studio 60 on the Sunset Strip | Aaron Sorkin | Academy Award | The Social **Network** | [20] | edit | " **NETWORK** (AA)" | United Artists | British Board of Film Classification | "**Network**, Box Office Information" | Box Office Mojo | Producers Guild Hall of Fame - Past Inductees | Original site | Christine Chubbuck | ISBN 0252029348 | "**Network** (1976)" | "Video of the 500th Show Celebration - Replay" | Empire: "Television will eat itself in Sidney Lumet's searing satire", October 1, 2008; via allbusiness.com | Google Books: "Looking for Gatsby" By Faye Dunaway and Betsy Sharkey, p.304. | UPI, via Milwaukee Sentinel and Google News, "Producer Lin Bolen Denies She's '**Network**' Character", July 31, 1978. | Review of **Network** | The New York Times | "**Network**" | Rotten Tomatoes | Flixster | Review of **Network** | Roger Ebert | Review of **Network** | "The 500 Greatest Movies Of All Time" |

Archived | ISBN | 0-684-19051-6 | ISBN | 0-14-017513-X | "Oscar by the Numbers" | "Airdate: Shaun Micallef's Mad as Hell" | "Screenplay by Aaron Sorkin Academy Awards Acceptance Speech" | Itzkoff, David | "Notes of a Screenwriter, Mad as Hell" | edit | **Network** (film) | **Network** | Internet Movie Database | **Network** | TCM Movie Database | **Network** | Box Office Mojo | **Network** | Rotten Tomatoes | One Flew Over the Cuckoo's Nest | Best Actor | Best Actress | Coming Home | Who's Afraid of Virginia Woolf? | Best Actress | Best Supporting Actress | Moonstruck | v | t | e | Sidney Lumet | 12 Angry Men | Stage Struck | That Kind of Woman | The Fugitive Kind | A View from the Bridge | Long Day's Journey Into Night | The Pawnbroker | Fail-Safe | The Hill | The Group | The Deadly Affair | Bye Bye Braverman | The Sea Gull | The Appointment | King: A Filmed Record... Montgomery to Memphis | Last of the Mobile Hot Shots | The Anderson Tapes | Child's Play | The Offence | Serpico | Lovin' Molly | Murder on the Orient Express | Dog Day Afternoon | Equus | The Wiz | Just Tell Me What You Want | Prince of the City | Deathtrap | The Verdict | Daniel | Garbo Talks | Power | The Morning After | Running on Empty | Family **Business** | Q & A | A Stranger Among Us | Guilty as Sin | Night Falls on Manhattan | Critical Care | Gloria | Strip Search | Find Me Guilty | Before the Devil Knows You're Dead | film)&oldid= 616570533 | Categories | 1976 films |)_http://en.wikipedia.org/w/index.php?title=**Network** English-language films | 1970s comedy-drama films | American comedy-drama films | American satirical films | Films directed by Sidney Lumet | Screenplays by Paddy Chayefsky | Films about television | Films featuring a Best Actor Academy Award winning performance | Films featuring a Best Actress Academy Award winning performance | Films featuring a Best Drama Actor Golden Globe winning performance | Films featuring a Best Drama Actress Golden Globe winning performance | Films featuring a Best Supporting Actress Academy Award winning performance | Films set in New York City | Films whose director won the Best Director Golden Globe | Films whose writer won the Best Original Screenplay Academy Award | United States National Film Registry films | United Artists films | Metro-Goldwyn-Mayer films | Use mdy dates from April 2012 | All film articles using the film date template | Articles needing additional references from January 2013 | All articles needing additional references | Create account | Log in | Article | Talk | Read | Edit | View history | Main page | Contents | Featured content | Current events | Random article | Donate to Wikipedia | Wikimedia Shop | Help | About Wikipedia | Community portal | Recent changes | Contact page | What links here | Related changes | Upload file | Special pages | Permanent link | Page information | Wikidata item | Cite this page | Create a book | Download as PDF | ????????? | Català | Cymraeg | Deutsch | ???????? | Español | | ??????? | Printable version ??????? | Magyar | ?????????? | Bahasa | ????? | Français | Hrvatski | Italiano | ????? | Esperanto / Melayu | Nederlands | ??? | Norsk bokmål | Polski | Português | ??????? | Srpskohrvatski ????????????? | Suomi | Svenska | Türkçe | ?????????? | ?? | Edit links | Creative Commons Attribution-ShareAlike License | Terms of Use | Privacy Policy | Wikimedia Foundation, Inc. | Privacy policy | About Wikipedia | Disclaimers | Contact Wikipedia | Developers | Mobile view | Wikimedia Foundation | Powered by MediaWiki

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| Any recommendations for a female character as annoying as Diana Christensen? | Is "**Network**" based on a book? | See more | Christopher T. Chase

(cchase@onebox.com) | See all my reviews | Review this title | See all 298 user reviews | From an old broadcaster | psadek-496-994449 | I enjoyed this film but.... | MsJackieO | The William Holden-Faye Dunaway romance subplot is trite and irrelevent | chapmanshomer | COMPARE: Howard Beale vs. Glenn Beck | rzajac | Watching **Network** in 2011 | gabi-shoemaker | Remake | Dan-136 | Discuss **Network** (1976) | Getting Started | Contributor Zone | Write review | Home | Search | Site Index | In Theaters | Coming Soon | Top Movies | Top 250 | TV | News | Message Boards | Press Room | Register | Advertising | Contact Us | Jobs | IMDbPro | Box Office Mojo | Withoutabox | iPhone/iPad | Android | Mobile site | Windows Phone 7 | Facebook | Twitter | Copyright © | IMDb.com, Inc. | Conditions of Use | Privacy Policy | Interest-Based Ads | Amazon Instant Video Watch Movies & TV Online | Prime Instant Video Unlimited Streaming of Movies & TV | Amazon Germany Buy Movies on DVD & Blu-ray | Amazon Italy Buy Movies on DVD & Blu-ray | Amazon France Buy Movies on DVD & Blu-ray | Amazon India Buy Movie and TV Show DVDs | DPReview Digital Photography | Audible Download Audio Books

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Licklider | Intergalactic Computer **Network** | ARPANET | Advanced Research Projects Agency | Dartmouth Time Sharing System | Massachusetts Institute of Technology | General Electric | Bell Labs | Leonard Kleinrock | Paul Baran | Donald Davies | packets | Lawrence G. Roberts | wide area **network** | ARPANET | telephone switch | Western Electric | University of California at Los Angeles | Stanford Research Institute | University of California at Santa Barbara | University of Utah | ARPANET | [2] | X.25 | TCP/IP | Robert Metcalfe | Xerox PARC | Ethernet | Aloha **network** | Norman Abramson | University of Hawaii | Robert Metcalfe | David Boggs | [3] | [4] | Datapoint Corporation | ARCNET | [4] | edit | electrical engineering | telecommunications | computer science | information technology | computer engineering | Distributed computing | computer Crackers | computer viruses | computer worms | denial of service | edit | **Network** packet | data | packet-switched **network** | point-to-point telecommunications links | bit stream | bandwidth | circuit switched | payload | **network** addresses | error detection | headers | trailers | edit | **Network** topology | edit | electrical cable | HomePNA | power line communication | G.hn | optical fiber | fiber-optic communication | radio waves | wireless networking | OSI model | LAN | Ethernet | IEEE 802.3 | IEEE 802.11 | radio waves | infrared | Power line communication | edit | Fiber optic cables | Twisted pair | Ethernet | IEEE 802.3 | crosstalk | electromagnetic induction | Coaxial cable | ITU-T | G.hn | home wiring | coaxial cable | power lines | optical fiber | undersea cables | [5] | edit | Wireless **network** | microwave | satellites | Cellular | spread spectrum | IEEE 802.11 | Wifi | Free-space optical communication | line-of-sight propagation | edit | IP over Avian Carriers | Request for Comments | RFC 1149 | [6] | [7] | round-trip delay time | edit | Node (networking) | system | **network** interface controller | repeaters | hubs | bridges | switches | routers | modems | firewalls | edit | ATM | **network** interface controller | computer hardware | **network** address | Ethernet | Media Access Control | Institute of Electrical and Electronics Engineers | octets | edit | repeater | electronic | signal | retransmitted | hub | propagation delay | 5-4-3 rule | edit | **network** bridge | **network** segments | data link layer | OSI model | edit | **network** switch | OSI layer 2 | datagrams | ports | [8] | [9] | Multi-layer switches | URL | edit | ADSL | Ethernet | router | packets | edit | Modems | Digital Subscriber

Line | edit | firewall | cyber attacks | edit | **Network** topology | edit | bus **network** | Ethernet | 10BASE5 | 10BASE2 | star **network** | Wireless LAN | Wireless access point | ring **network** | Fiber Distributed Data Interface | mesh **network** | fully connected **network** | tree **network** | FDDI | edit | overlay **network** | peer-to-peer | [10] | modems | telephone **network** | [10] | Address resolution | routing | distributed hash table | map | quality of service | streaming media | IntServ | DiffServ | IP Multicast | routers | citation needed | Internet service providers | Akamai Technologies | multicast | [11] | edit | Protocols in relation to the Internet layering scheme. | communications protocol | protocol stack | OSI model | HTTP | TCP | IP | IEEE 802.11 | Internet Protocol Suite | Ethernet | wireless router | [12] | [13] | TCP | IPv4 header | **network** layer | transport layer | connection-oriented | connectionless | circuit mode | packet switching | edit | Ethernet | IEEE 802 | Institute of Electrical and Electronics Engineers | OSI model | IEEE 802.11 | Wireless LAN | IEEE 802 | MAC | bridging | IEEE 802.1D | Spanning Tree Protocol | IEEE 802.1Q | VLANs | IEEE 802.1X | **Network** Access Control | edit | Internet Protocol Suite | Internet protocol | Internet Protocol Version 4 | edit | Synchronous optical networking | multiplexing | circuit-switched | PCM | Asynchronous Transfer Mode | edit | Asynchronous Transfer Mode | time-division multiplexing | cells | Internet Protocol Suite | Ethernet | frames | circuit | packet | low-latency | connection-oriented | virtual circuit | next-generation **networks** | last mile | Internet service provider | [14] | edit | personal area **network** | [15] | local area **network** | node | Ethernet | ITU-T | G.hn | [16] | **network** layer | subnets | router | Internet Protocol | Internet | wide area **network** | data transfer rates | leased lines | IEEE 802.3 | IEEE | [17] | router | home area **network** | digital subscriber line | storage area **network** | campus area **network** | Cat5 | backbone **network** | **network** performance | **network** congestion | Internet backbone | wide area **networks** | core routers | Internet | Metropolitan area **network** | wide area **network** | OSI reference model | physical layer | data link layer | **network** layer | enterprise private **network** | virtual private **network** | global area **network** | wireless LANs | [18] | edit | Internet | edit | intranet | IP | edit | extranet | edit | internetwork | edit | opte.org | IP addresses | Class C | Internet | Internet Protocol Suite | Advanced Research Projects Agency **Network** | DARPA | United States Department of Defense | World Wide Web | IP addresses | Internet Assigned Numbers Authority | address registries | reachability | Border Gateway Protocol | edit | Darknet | F2F | [19] | protocols | ports | peer-to-peer | sharing | IP addresses | [20] | edit | Routing | circuit switching | packet switched **networks** | packet forwarding | **network** packets | nodes | routers | bridges | gateways | firewalls | switches | computers | routing tables | memory | Multipath routing | Administrative distance | bridging | **network** addresses | edit | **Network** services | servers | provide some functionality | World Wide Web | E-mail | [21] | printing | **network** file sharing | Domain Name System | IP | MAC addresses | [22] | DHCP | [23] | service protocol | edit | edit | **network** performance | quality of service | throughput | jitter | bit error rate | latency | packet-switched **network** | circuit switched | grade of service | [24] | Asynchronous Transfer Mode | quality of service | [25] | [26] | edit | **Network** congestion | quality of service | queueing delay | packet loss | blocking | offered load | throughput | **Network** protocols | retransmissions | congestion control | congestion avoidance | exponential backoff | 802.11 | CSMA/CA | Ethernet | window | TCP | fair queueing | routers | 802.1p | ITU-T | G.hn | Local area networking | RFC 2914 | edit | **Network** resilience | service | faults | [27] | edit | edit | **Network** security | policies | **network** administrator | unauthorized | [28] | edit | **Network** surveillance | Internet | social control | criminal | Total Information Awareness | high speed surveillance computers | biometrics | Communications Assistance For Law Enforcement Act | [29] | civil rights | privacy | Reporters Without Borders | Electronic Frontier Foundation | American Civil Liberties Union | mass surveillance | Hepting v. AT&T | [29] | [30] | hacktivist | Anonymous | [31] | [32] | edit | End-to-end encryption | digital communications | encrypting | Internet providers | application service providers | confidentiality | integrity | PGP | email | OTR | instant messaging | ZRTP | telephony | TETRA | server | clients | servers | Google Talk | Yahoo Messenger | Facebook | Dropbox | back door | encryption key | Skype | technical exploitation | clients | random number generators | key escrow | traffic analysis | edit | community of interest | peer-to-peer | routers | bridges | application layer gateways | subnets | virtual LAN (VLAN) | intranet | [33] | extranet | [33] | Internet Service Providers | Internet | IP address | Border Gateway Protocol | human-readable | Domain Name System | **business**-to-**business** (B2B) | **business**-to-consumer (B2C) | consumer-to-consumer (C2C) | communications security | Virtual Private **Network** | edit | Comparison of **network** diagram software | Cyberspace | History of the Internet | **Network** simulation | Virtual reality | Virtual world | edit | Computer **network** definition | "Internet Began 35 Years Ago at UCLA with First Message Ever Sent Between Two Computers" | UCLA | the original | Ethernet: Distributed Packet Switching for Local Computer **Networks** | a | b | ISBN | 1-56592-660-9 | [1] | "Bergen Linux User Group's CPIP Implementation" | Interplanetary Internet | "Define switch." | http://compnetworking.about.com/cs/internetworking/g/bldef_bridge.htm | a | b | R. Morris | Resilient Overlay **Networks** | Association for Computing Machinery | "End System Multicast" | "Design Principles for DSL-Based Access Solutions" | "personal area **network** (PAN)" | New global standard for fully **networked** home | IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet Task Force | "Mobile Broadband Wireless connections (MBWA)" | doi | 10.1016/S1361-3723(09)70150-2 | "The Darknet: A Digital Copyright Revolution" | RFC 1035 | Computer **Networks**: A Systems Approach | Teletraffic Engineering Handbook | the original | Telecommunications Magazine Online | "State Transition Diagrams" | "Definitions: Resilience" | doi | 10.1007/978-3-540-30176-9_41 | ISBN | 978-3-540-23659-7 | help | a | b | "Is the U.S. Turning Into a Surveillance Society?" | "Bigger Monster, Weaker Chains: The Growth of an American Surveillance Society" | "Anonymous hacks UK government sites over 'draconian surveillance' " | Hacktivists in the frontline battle for the internet | a | b | RFC 2547 | public domain material | General Services Administration | "Federal Standard 1037C" | edit | William Stallings | Important publications in computer **networks** | edit | Networking | DMOZ | IEEE Ethernet manufacturer information | v | t | e | Telecommunications | History | Beacon | Broadcasting | Communications satellite | Computer **network** | Drums | Electrical telegraph | Fax | Heliographs | Hydraulic telegraph | Internet | Mass media | Mobile phone | Optical telecommunication | Optical telegraphy | Photophone | Prepaid mobile phone | Radio | Radiotelephone | Satellite communications | Smoke signals | Telecommunications history | Telegraphy | Telephone | The Telephone Cases | Television | Timeline of communication technology | Undersea telegraph line | Videoconferencing | Videophone | Videotelephony | Telecommunications symbol | Edwin Howard Armstrong | John Logie Baird | Alexander Graham Bell | Tim Berners-Lee | Jagadish Chandra Bose | Vint Cerf | Claude Chappe | Lee de Forest | Philo Farnsworth | Reginald Fessenden | Elisha Gray | Guglielmo Marconi | Alexander Stepanovich Popov | Johann Philipp Reis | Nikola Tesla | Camille Papin Tissot | Alfred Vail | Charles Wheatstone | Vladimir K. Zworykin | Transmission media | Coaxial cable | Free-space optical | Optical fiber | Radio waves | Telephone lines | Terrestrial microwave | **Network** topology | Links | Nodes | Terminal node | **Network** switching | circuit | packet | Telephone exchange | Multiplexing | Space-division | Frequency-division | Time-division | Polarization-division | Orbital angular-momentum | Code-division | **Networks** | ARPANET | BITNET | Ethernet | FidoNet | Internet | ISDN | LAN | Mobile | NGN | Public Switched Telephone | Radio | Telecommunications equipment | Television | Telex | WAN | Wireless |

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2883 words in 1695 anchor texts

World Wide Web | v | t | e | Sovereign states | Algeria | Angola | Benin | Botswana | Burkina Faso | Burundi | Cameroon | Cape Verde | Central African Republic | Chad | Comoros | Democratic Republic of the Congo | Republic of the Congo | Djibouti | Egypt | Equatorial Guinea | Eritrea | Ethiopia | Gabon | The Gambia | Ghana | Guinea | Guinea-Bissau | Ivory Coast (Côte d'Ivoire) | Kenya | Lesotho | Liberia | Libya | Madagascar | Malawi | Mali | Mauritania | Mauritius | Morocco | Mozambique | Namibia | Niger | Nigeria | Rwanda | São Tomé and Príncipe | Senegal | Seychelles | Sierra Leone | Somalia | South Africa | South Sudan | Sudan | Swaziland | Tanzania | Togo | Tunisia | Uganda | Zambia | Zimbabwe | States with limited recognition | Sahrawi Arab Democratic Republic | Somaliland | Dependencies | Canary Islands | Ceuta | Melilla | Plazas de soberanía | Madeira | Mayotte | Réunion | Saint Helena | Ascension Island | Tristan da Cunha | Western Sahara | v | t | e | Sovereign states | Afghanistan | Armenia | Azerbaijan | Bahrain | Bangladesh | Bhutan | Brunei | Burma (Myanmar) | Cambodia | China | Cyprus | East Timor (Timor-Leste) | Egypt | Georgia | India | Indonesia | Iran | Iraq | Israel | Japan | Jordan | Kazakhstan | North Korea | South Korea | Kuwait | Kyrgyzstan | Laos | Lebanon | Malaysia | Maldives | Mongolia | Nepal | Oman | Pakistan | Philippines | Qatar | Russia | Saudi Arabia | Singapore | Sri Lanka | Syria | Tajikistan | Thailand | Turkey | Turkmenistan | United Arab Emirates | Uzbekistan | Vietnam | Yemen | States with limited recognition | Abkhazia | Nagorno-Karabakh | Northern Cyprus | Palestine | South Ossetia | Taiwan | Dependencies | British Indian Ocean Territory | Christmas Island | Cocos (Keeling) Islands | Hong Kong | Macau | v | t | e | Telecommunications in Europe | Sovereign states | Albania | Andorra | Armenia | Austria | Azerbaijan | Belarus | Belgium | Bosnia and Herzegovina | Bulgaria | Croatia | Cyprus | Czech Republic | Denmark | Estonia | Finland | France | Georgia | Germany | Greece | Hungary | Iceland | Ireland | Italy | Kazakhstan | Latvia | Liechtenstein | Lithuania | Luxembourg | Macedonia | Malta | Moldova | Monaco | Montenegro | Netherlands | Norway | Poland | Portugal | Romania | Russia | San Marino | Serbia | Slovakia | Slovenia | Spain | Sweden | Switzerland | Turkey | Ukraine | United Kingdom | States with limited recognition | Abkhazia | Kosovo | Nagorno-Karabakh | Northern Cyprus | South Ossetia | Transnistria | Dependencies | Åland | Faroe Islands | Gibraltar | Guernsey | Jersey | Isle of Man | Svalbard | European Union | v | t | e | Antigua and Barbuda | Bahamas | Barbados | Belize | Canada | Costa Rica | Cuba | Dominica | Dominican Republic | El Salvador | Grenada | Guatemala | Haiti | Honduras | Jamaica | Mexico | Nicaragua | Panama | Saint Kitts and Nevis | Saint Lucia | Saint Vincent and the Grenadines | Trinidad and Tobago | United States | Anguilla | Aruba | Bermuda | Bonaire | British Virgin Islands | Cayman Islands | Curaçao | Greenland | Guadeloupe | Martinique | Montserrat | Navassa Island | Puerto Rico | Saint Barthélemy | Saint Martin | Saint Pierre and Miquelon | Saba | Sint Eustatius | Sint Maarten | Turks and Caicos Islands | United States Virgin Islands | v | t | e | Sovereign states | Australia | East Timor | Fiji | Kiribati | Marshall Islands | Federated States of Micronesia | Nauru | New Zealand | Palau | Papua New Guinea | Samoa | Solomon Islands | Tonga | Tuvalu | Vanuatu | Associated states of New Zealand | Cook Islands | Niue | Dependencies | American Samoa | Christmas Island | Cocos (Keeling) Islands | Easter Island | French Polynesia | Guam | Hawaii | New Caledonia | Norfolk Island | Northern Mariana Islands | Pitcairn Islands | Tokelau | Wallis and Futuna | v | t | e | Sovereign states | Argentina | Bolivia | Brazil | Chile | Colombia | Ecuador | Guyana | Paraguay | Peru | Suriname | Uruguay | Venezuela | Dependencies | Falkland Islands | French Guiana | South Georgia and the South Sandwich Islands | Telecommunications | Telecommunication | Telecommunication | v | t | e | Operating system | Advocacy | Comparison | History | Hobbyist development | List | Timeline | Usage share | Kernel | Architectures | Exokernel | Hybrid | Microkernel | Monolithic | Device driver | Loadable kernel module | Microkernel | User space | Process management | Context switch | Interrupt | IPC | Process | Process control block | Thread | Time-sharing | Scheduling algorithms | Computer multitasking | Fixed-priority preemptive | Multilevel feedback queue | Preemptive | Round-robin | Shortest job next | Memory management | resource | Bus error | General protection fault | Memory protection | Paging | Security rings | Segmentation fault | Virtual memory | Storage | file systems | Boot loader | Defragmentation | Device file | File attribute | Inode | Journal | Partition | Virtual file system | Virtual tape library | List | AmigaOS | Android | BeOS | BSD | DOS | GNU Hurd | iOS | Linux | Mac OS | MorphOS | OpenVMS | OS/2 | OSv | QNX | ReactOS | RISC OS | Solaris | TPF | Unix | VM/CMS | Windows | z/OS | API | HAL | Live CD | Live USB | OS shell | CLI | GUI | TUI | VUI | PXE | v | t | e | Technology | Outline of technology | Outline of applied science | Agriculture | Agricultural engineering | Aquaculture | Fisheries science | Food chemistry | Food engineering | Food microbiology | Food technology | GURT | ICT | Nutrition | Biomedical | Bioinformatics | Biological engineering | Biomechatronics | Biomedical engineering | Biotechnology | Cheminformatics | Genetic engineering | Healthcare science | Medical research | Medical technology | Nanomedicine | Neuroscience | Neurotechnology | Pharmacology | Reproductive technology | Tissue engineering | Buildings | Construction | Acoustical engineering | Architectural engineering | Building services engineering | Civil engineering | Construction engineering | Domestic technology | Facade engineering | Fire protection engineering | Safety engineering | Sanitary engineering | Structural engineering | Educational | Educational software | Digital technologies in education | ICT in education | Impact | Multimedia learning | Virtual campus | Virtual education | Energy | Nuclear engineering | Nuclear technology | Petroleum engineering | Soft energy technology | Environmental | Clean technology | Clean coal technology | Ecological design | Ecological engineering | Ecotechnology | Environmental engineering | Environmental engineering science | Green building | Green nanotechnology | Landscape engineering | Renewable energy | Sustainable design | Sustainable engineering | Industrial | Automation | **Business** informatics | Engineering management | Enterprise engineering | Financial engineering | Industrial biotechnology | Industrial engineering | Metallurgy | Mining engineering | Productivity improving technologies | Research and development | IT and communications | Artificial intelligence | Broadcast engineering | Computer engineering | Computer science | Information technology | Music technology | Ontology engineering | RF engineering | Software engineering | Telecommunications engineering | Visual technology | Web engineering | Military | Army engineering maintenance | Electronic warfare | Military communications | Military engineering | Stealth technology | Transport | Aerospace engineering | Automotive engineering | Naval architecture | Space technology | Traffic engineering | Transport engineering | applied sciences | Cryogenics | Electro-optics | Electronics | Engineering geology | Engineering physics | Hydraulics | Materials science | Microfabrication | Nanoengineering | engineering | fields | Audio | Biochemical | Ceramic | Chemical | Polymer | Control | Electrical | Electronic | Entertainment | Geotechnical | Hydraulic | Mechanical | Mechatronics | Optical | Protein | Quantum | Robotics | Animatronics | Systems | Infrastructure | Invention | Timeline | Knowledge | Machine | Skill | Craft | Tool | Gadget | Femtotechnology | Picotechnology | Nanotechnology | Microtechnology | Macro-engineering | Megascale engineering | History | Prehistoric technology | Neolithic Revolution | Ancient technology | Medieval technology | Renaissance technology | Industrial Revolution | Second | Jet Age | Digital Revolution | Information Age | Theories | Appropriate technology | Critique of technology | Diffusion of innovations | Disruptive innovation | Dual-use technology | Ephemeralization | Ethics of technology | High tech | Hype cycle | Low-technology | Mature technology | Philosophy of technology | Strategy

	of Technology | Technicism | Techno-progressivism | Technocapitalism | Technocentrism | Technocracy | Technocriticism | Technoetic | Technoethics | Technogaianism | Technological alliance | Technological apartheid | Technological change | Technological convergence | Technological determinism | Technological escalation | Technological evolution | Technological fix | Technological innovation system | Technological momentum | Technological nationalism | Technological paradigm | Technological rationality | Technological revival | Technological revolution | Technological self-efficacy | Technological singularity | Singularitarianism | Technological somnambulism | Technological transitions | Technological unemployment | Technological utopianism | Technology lifecycle | Technology acceptance model | Technology adoption lifecycle | Technomancy | Technorealism | Technoromanticism | Technoscience | Transhumanism | Emerging technologies | List | Fictional technology | Technopaganism | High-technology **business** districts | Kardashev scale | List of technologies | Science, technology and society | Technology dynamics | Science and technology | Science and technology by country | STEM fields | Pre-STEM | women | STEAM fields | Technology alignment | Technology assessment | Technology brokering | Technology companies | Technology demonstration | Technology education | Technical universities and colleges | Technology evangelist | Technology fusion | Technology governance | Technology integration | Technology journalism | Technology management | Technology policy | Technology shock | Technology strategy | Technology and society | Technology transfer | Technophilia | Technophobia | Technoself | Technosignature | Technostress | Book | Category | Commons | Portal | Wikiquotes | http://en.wikipedia.org/w/index.php?title=Computer_**network**&oldid= 623818468 | Categories | Computer **networks** | Computer networking | Telecommunications engineering | Pages containing cite templates with deprecated parameters | All articles with unsourced statements | Articles with unsourced statements from August 2010 | Wikipedia articles incorporating text from the Federal Standard 1037C | Articles with DMOZ links | Create account | Log in | Article | Talk | Read | Edit | View history | Main page | Contents | Featured content | Current events | Random article | Donate to Wikipedia | Wikimedia Shop | Help | About Wikipedia | Community portal | Recent changes | Contact page | What links here | Related changes | Upload file | Special pages | Permanent link | Page information | Wikidata item | Cite this page | Create a book | Download as PDF | Printable version | Afrikaans | ??????? | Az?rbaycanca | ????? | Bân-lâm-gú | ?????????? | | ??????? | ???? ?????????? (???????????) | ????????? | Bosanski | Brezhoneg | Català | ?eština | Français | | ????? | Dansk | Deutsch | Eesti | ???????? | Español | Esperanto | Euskara Gaeilge | Galego | ??????? | ??? | ??????? | ?????? | Hrvatski | Bahasa Indonesia | ??????? | ??????? | Kiswahili | Kurdî | ???????? | | ????? | Interlingua | Íslenska | Italiano Latviešu | Lëtzebuergesch | Lietuvi? | Limburgs | Magyar | ?????????? | ?????? | ????????? | Bahasa Melayu | Mirandés | ?????? | ?????????? | Nederlands | ??? | | ???? | Norsk bokmål | Norsk nynorsk | Occitan | ???? ????? | O?zbekcha | ?????? Plattdüütsch | Polski | Português | Român? | Runa Simi | ??????? | Scots | Shqip | ????? | / srpski | Srpskohrvatski/ ?????? | ????? | Simple English | Sloven?ina | Slovenš?ina ?????????????? | Suomi | Svenska | Tagalog | ????? | ?????? | ??? | ?????? | Türkçe | ?? | Edit links | Creative Commons Attribution- | ?????? | Ti?ng Vi?t | ???? | ?????????? ShareAlike License | Terms of Use | Privacy Policy | Wikimedia Foundation, Inc. | Privacy policy | About Wikipedia | Disclaimers | Contact Wikipedia | Developers | Mobile view | Wikimedia Foundation | Powered by MediaWiki
en.wikipedia.org/wiki/Network 279 words in 152 anchor texts	navigation | search | **network** | networking | 1 Biological, biosocial, electric, and electronic | 2 Mathematics | 3 Proper nouns (names) | 3.1 Art, entertainment, and media | 3.2 In film | 3.3 In gaming | 3.4 In music | 3.5 In print | 3.6 In television | 4 In organizations | 5 See also | edit | Artificial neural **network** | Biological **network** | **Business** networking | Computer **network** | Electrical **network** | Neural **network** | Radio **network** | Social **network** | Telecommunications **network** | Television **network** | Universities **network** | edit | Graph (mathematics) | Complex **network** | Flow **network** | edit | edit | edit | **Network** (film) | edit | **Network** (video game) | edit | **Network** (album) | **Network** DVD | The **Network** | edit | **Network** (comics) | Sovereign Seven | Modesty Blaise | edit | net_work (TV series) | Black20 | **Network** (TV series) | edit | **NETWORK** (lobbying group) | The **Network** (professional wrestling) | edit | Circuit theory | Electronic circuit | Graph theory | Hydraulic circuit | **Network** science | **Network** theory | Pneumatic circuit | Disambiguation icon | disambiguation | internal link | http://en.wikipedia.org/w/index.php?title=**Network**&oldid=617407323 | Categories | Disambiguation pages | All article disambiguation pages | All disambiguation pages | Create account | Log in | Article | Talk | Read | Edit | View history | Main page | Contents | Featured content | Current events | Random article | Donate to Wikipedia | Wikimedia Shop | Help | About Wikipedia | Community portal | Recent changes | Contact page | What links here | Related changes | Upload file | Special pages | Permanent link | Page information | Wikidata item | Cite this page | Create a book | Download as PDF | Printable version | Български | Français | Galego | ??? | | ????? | ol | Esperanto Català | Čeština | Dansk | Deutsch | Españ Italiano | ???????? | Latina | Magyar | Malagasy | Bahasa Melayu | Nederlands | ??? | Norsk bokmål | Norsk nynorsk | Nouormand | Plattdüütsch | Polski | Português | Român? | Runa Simi | ??????? | Sloven?ina | Slovenš?ina | Svenska | Tagalog | Türkçe | ?? | Edit links | Creative Commons Attribution-ShareAlike License | | ???? | ?????????? Terms of Use | Privacy Policy | Wikimedia Foundation, Inc. | Privacy policy | About Wikipedia | Disclaimers | Contact Wikipedia | Developers | Mobile view | Wikimedia Foundation | Powered by MediaWiki
	navigation | search | Social networking service | The Social **Network** | Social **network** (disambiguation) | Sociology | SNA segment.png | Outline | History | Theory | Positivism | Antipositivism | Functionalism | Conflict theories | Middle-range | Mathematical | Critical theory | Social constructionism | Structuralism | Interactionism | Methods | Quantitative | Qualitative | Historical | Computational | Conversation analysis | Ethnography | Ethnomethodology | **Network** analysis | Subfields | Conflict | Criminology | Culture | Development | Deviance | Demography | Education | Economic | Environment | Family | Gender | Health | Industrial | Inequality | Knowledge | Law | Literature | Medical | Military | Organizational | Political | Race and ethnicity | Religion | Rural | Science | Social change | Social movements | Social psychology | Stratification | Technology | Urban | Browse | Portal | People | Organizations | Journals | Index | Timeline | WikiProject | v | t | e | **Network** science | Internet map 1024.jpg | Theory | Graph | Complex **network** | Contagion | Small-world | Scale-free | Community structure | Percolation | Evolution | Controllability | Graph drawing | Social capital | Link analysis | Optimization | Reciprocity | Closure | Homophily | Transitivity | Preferential attachment | Balance theory | **Network** effect | Social influence | Informational (computing) | Telecommunication | Biological | Artificial neural | Interdependent | Semantic | Random graph | Spatial | Dependency | Flow | Graphs | Clique | Component | Cut | Cycle | Data structure | Edge | Loop | Neighborhood | Path | Vertex | Adjacency list | matrix |

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Incidence list | matrix | Bipartite | Complete | Directed | Hyper | Multi | Random | Weighted | Metrics | Algorithms | Centrality | Degree | Betweenness | Closeness | PageRank | Motif | Clustering | Degree distribution | Assortativity | Distance | Modularity | Random graph | Erdős–Rényi | Barabási–Albert | Watts–Strogatz | Exponential random (ERGM) | Epidemic | Hierarchical | Topics | Software | **Network** scientists | Graph theory | **Network** theory | v | t | e | social structure | social | dyadic | [1] | social **network** analysis | interdisciplinary | social psychology | sociology | statistics | graph theory | Georg Simmel | [2] | Jacob Moreno | sociograms | [1] | [3] | Social **network** analysis | complex **networks** | **network** science | [4] | [5] | 1 Overview | 2 History | 3 Levels of analysis | 3.1 Micro level | 3.2 Meso level | 3.3 Macro level | 4 Theoretical links | 4.1 Imported theories | 4.2 Indigenous theories | 5 Structural holes | 5.1 Information benefits | 5.2 Social capital mobility benefits | 6 Research clusters | 6.1 Communications | 6.2 Community | 6.3 Complex **networks** | 6.4 Criminal **networks** | 6.5 Diffusion of innovations | 6.6 Demography | 6.7 Economic sociology | 6.8 Health care | 6.9 Human ecology | 6.10 Language and linguistics | 6.11 Literary **networks** | 6.12 Organizational studies | 6.13 Social capital | 6.14 Social media | 7 See also | 8 References | 9 Further reading | 10 External links | 10.1 Organizations | 10.2 Peer-reviewed journals | 10.3 Textbooks and educational resources | 10.4 Data sets | edit | Barabási model | theoretical | construct | social sciences | groups | organizations | societies | social units | differentiation | social structure | interactions | axiom | social interaction | individual agency | [6] | agent-based modeling | **network** analytics | anthropology | biology | communication studies | economics | geography | information science | organizational studies | social psychology | sociology | sociolinguistics | edit | Émile Durkheim | Ferdinand Tönnies | social groups | Gemeinschaft | community | Gesellschaft | society | [7] | [8] | Georg Simmel | [9] | [6] | [10] | [11] | psychology | Jacob L. Moreno | sociometry | anthropology | ethnographic | Bronislaw Malinowski | [12] | Alfred Radcliffe-Brown | [13] | [14] | Claude Lévi-Strauss | [15] | Max Gluckman | Manchester School | John A. Barnes | [16] | J. Clyde Mitchell | Elizabeth Bott Spillius | [17] | [18] | [6] | S.F. Nadel | [19] | sociology | Talcott Parsons | [20] | [21] | Peter Blau | social exchange theory | [22] | [23] | [24] | Harrison White | Harvard University Department of Social Relations | Charles Tilly | Stanley Milgram | [25] | Mark Granovetter | [26] | Barry Wellman | [27] | [28] | [29] | [30] | [31] | edit | [32] | self-organizing | emergent | complex | [33] | [34] | [35] | interpersonal relationships | information | [36] | [37] | levels of analysis | mutually exclusive | micro-level | meso-level | macro-level | edit | snowballing | dyad | structure | social equality | reciprocity/mutuality | triad | balance | transitivity | social equality | reciprocity/mutuality | [36] | centrality | prestige | isolates, liaisons | bridges | [38] | psychology | social psychology | ethnographic | kinship | genealogical | Subset | distance | cliques | cohesive | group actions | behavior | [39] | edit | population | [40] | organizations | social groups | goal | [41] | formal | informal | [41] | Exponential random graph models | degree | reciprocity | transitivity | homophily | attribute | dependencies | Parameters | subgraph | [42] | scale-free **network** | **network** | degree distribution | power law | asymptotically | **network** theory | random **network** | degree distribution | [43] | vertices | degree | clustering coefficient | power law | [44] | Barabási | edit | economic | resource | transfer | population | Large-scale **network** | social | behavioral | economics | computer sciences | large-scale **network** mapping) | social complexity | **network** topology | complexity science | dynamical system | chaos theory | biological | technological **networks** | complex **network** | degree distribution | clustering coefficient | assortativity | community structure | hierarchical structure | agency-directed | reciprocity | **network** motif | lattices | random graphs | [45] | edit | edit | Graph theory | Balance theory | Social comparison theory | Social identity approach | [46] | edit | Structural Role Theory | [47] | edit | [48] | [49] | [49] | [49] | edit | [49] | edit | [48] | John Stuart Mill | [50] | [51] | [52] | [48] | edit | edit | Communication Studies | sociology | psychology | anthropology | information science | biology | political science | economics | rhetoric | literary studies | semiotics | edit | community | telecommunications | social **network** services | **network** science | Community development | edit | Complex **networks** | social complexity | complex adaptive systems | dynamic **network** analysis | edit | criminology | urban sociology | [53] | edit | Diffusion of ideas and innovations | culture | edit | demography | edit | sociology | economic sociology | social capital | [54] | edit | health care analytics | epidemological | patient communication | systems | [55] | edit | Human ecology | interdisciplinary | transdisciplinary | humans | natural | social | built environments | geography | sociology | psychology | 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10.1177/0002764209356247 | "Studying Online Social **Networks**" | doi | 10.1111/j.1083-6101.1997.tb00062.x | help | help | edit | ISBN | 0-521-24441-2 | ISBN | 978-0-7619-6338-7 | ISBN | 978-0-521-38269-4 | ISBN | 978-0-452-28439-5 | ISBN | 1-59457-714-5 | ISBN | 978-1-4129-7911-5 | ISBN | 978-0-19-537946-4 | ISBN 978-0262017190 | ISBN 978-0-199-59175-6 | Ad-hoc-Social-**Network**-A-Comprehensive-Survey. | edit | edit | International **Network** for Social **Network** Analysis | edit | Social **Networks** | **Network** Science | Journal of Social Structure | Journal of Mathematical Sociology | Social **Network** Analysis and Mining (SNAM) | Connections | ISSN | 0226-1766 | edit | **Networks**, Crowds, and Markets | Introduction to Social **Networks** Methods | Social **Network** Analysis Instructional Web Site | edit | Social **networks** | Pajek's list of lists of datasets | UC Irvine **Network** Data Repository | Stanford Large **Network** Dataset Collection | M.E.J. Newman datasets | Pajek datasets | Gephi datasets | KONECT - Koblenz **network** collection | RSiena datasets | v | t | e | social media | City | Personal | Professional | Sexual | Value | Distributed social **network** | list | Enterprise social networking | Mobile social **network** | Personal knowledge networking | Services | List of social networking websites | List of virtual communities with more than 1 million users | List of virtual communities with more than 100 million active users | Assortative mixing | Interpersonal bridge | Organizational **network** analysis | Small world experiment | Social

	aspects of television | Social capital | Social data revolution | Social exchange theory | Social identity theory | Social **network** analysis | Social web | Structural endogamy | Aggregation | Change detection | Collaboration graph | Collaborative consumption | Giant Global Graph | Lateral communication | Lateral diffusion | Lateral media | Social graph | Social **network** analysis software | Social networking potential | Social pyramid | Social television | Structural cohesion | Collaborative finance | Social commerce | Community recognition | Complex contagion | Consequential strangers | Friend of a friend | Friendship paradox | Six degrees of separation | Social invisibility | Social **network** game | Social occultation | Tribe | Researchers | User profile | Viral messages | Virtual community | v | t | e | Social sciences | Anthropology | Archaeology | Economics | Geography | human | History | Law | Linguistics | Political science | international relations | political economy | public administration | Psychology | Sociology | criminal justice | criminology | demography | rural | Anthrozoology | Area studies | Communication studies | Community studies | Cultural studies | Development studies | Education | social science | studies | Food studies | Gender studies | Global studies | History of technology | Human ecology | Information science | International studies | Media studies | Philosophy of science | economics | history | psychology | social science | land use | regional | urban | Political ecology | Public health | Regional science | Science and technology studies | Science studies | historical | Humanities | Geisteswissenschaft | Human science | Index | Journals | Outline | Portal | WikiProject | Wikiversity | http://en.wikipedia.org/w/index.php?title=Social_**network**&oldid=623348991 | Categories | Communication theory | Community building | Complex systems theory | **Network** theory | Organizational theory | Self-organization | Social information Social systems | Sociological terminology | Sociological | processing | Social **networks** theories | Systems theory | Pages containing cite templates with deprecated parameters | CS1 errors: dates | Commons category with local link same as on Wikidata | Create account | Log in | Article | Talk | Read | Edit | View history | Main page | Contents | Featured content | Current events | Random article | Donate to Wikipedia | Wikimedia Shop | Help | About Wikipedia | Community portal | Recent changes | Contact page | What links here | Related changes | Upload file | Special pages | Permanent link | Page information | Wikidata item | | ??????? | Cite this page | Create a book | Download as PDF | Printable version ????????? | Brezhoneg | Català | Corsu | Dansk | Deutsch | Eesti | ???????? | Español | Français | Galego | ??? | ??????? | ?????? | Hrvatski | Ido | Bahasa | ????? | Euskara ??????? | Magyar | ?????????? | Bahasa Melayu | | ????? | Indonesia | Italiano Nederlands | ??? | Norsk bokmål | Polski | Português | ??????? | Simple English | ????????????? | Suomi |/ srpski | Srpskohrvatski/ ?????? | ????? | Sloven?ina Svenska | Taqbaylit | ??? | ?????????? | Ti?ng Vi?t | Walon | ?? | Edit links | Creative Commons Attribution-ShareAlike License | Terms of Use | Privacy Policy | Wikimedia Foundation, Inc. | Privacy policy | About Wikipedia | Disclaimers | Contact Wikipedia | Developers | Mobile view | Wikimedia Foundation | Powered by MediaWiki
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www.londonchamber.co.uk/lcc_public/article.asp?aid=3915 135 words in 53 anchor texts	Media Centre | How to find us | Work for us | feedback | View our up and coming events, over 200 each year | events' calendar. | Book Online | mzanfrini@londonchamber.co.uk | events@londonchamber.co.uk | Book Online | mzanfrini@londonchamber.co.uk | Book Online | Institute of Chartered Secretaries and Administrators | events@londonchamber.co.uk | Book Online | Institute of Chartered Secretaries and Administrators | events@londonchamber.co.uk | Book Online | Book Online | mzanfrini@londonchamber.co.uk | Book Online | Book Online | Institute of Chartered Secretaries and Administrators | events@londonchamber.co.uk | Book Online | Book Online | ewood@londonchamber.co.uk | Book Online | Institute of Chartered Secretaries and Administrators | events@londonchamber.co.uk | Book Online | membersales@londonchamber.co.uk | here | online application form
www.business-network.co.uk/ 117 words in 48 anchor texts	**Business**-logo | Members Area | Home | Event Dates | Seminar Information | Benefits of Membership | Testimonials | News | Contact Us | **Business** Opportunity | Members Area | Bolton and Bury | Chester | Derby | Hull | Lancaster | Lincoln | Liverpool | London Central | Manchester | Nottingham | Central and East Lancashire | South Herts | South Manchester | South Humberside | Warrington | Affiliate group | events | members | Here | Read More... | Could you run a group? Click here to learn more | Bolton and Bury **Business Network** | Chester **Business Network** | Derby **Business Network** | Hull **Business Network** | Lancaster **Business Network** | Lincoln **Business Network** | Liverpool **Business Network** | London Central **Business Network** | Manchester **Business Network** | Nottingham **Business Network** | Central and East Lancashire **Business Network** | South Herts **Business Network** | South Manchester **Business Network** | South Humberside **Business Network** | Warrington **Business Network** | Terms and Conditions
findnetworkingevents.com/ 549 words in 258 anchor texts	Twitter | Facebook | LinkedIn | Login | Contact Us | Tell a Friend | Useful Links | RSS | Subscribe to our Weekly Bulletin | Register to Add Events | Vibrant **Network** banner | FindNetworkingEvents | Home | Events by Region | Bedfordshire | Berkshire | Bristol | Buckinghamshire | Cambridgeshire | Cheshire | Cleveland | Cornwall | Cumbria | Derbyshire | Devon | Dorset | Durham | East Sussex | Essex | Gloucestershire | Greater Manchester | Hampshire | Herefordshire | Hertfordshire | Humberside | Kent | Lancashire | Leicestershire | Lincolnshire | London (Central) | London (East) | London (North) | London (South) | London (West) | Merseyside | Norfolk | North Yorkshire | Northamptonshire | Northumberland | Nottinghamshire | Oxfordshire | Shropshire | Somerset | South Yorkshire | Staffordshire | Suffolk | Surrey | Tyne and Wear | Warwickshire | West Midlands | West Sussex | West Yorkshire | Wiltshire | Worcestershire | Central | Dumfries and Galloway | Edinburgh and Lothians | Fife | Glasgow and Strathclyde | Grampian | Highlands and Islands | Orkney | Scottish Borders | Shetland Islands | Tayside | Mid Wales | North Wales | South Wales | County Antrim | County Armagh | County Down | County Fermanagh | County Londonderry | County Tyrone | Events by Town/City | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Events for Women | Bedfordshire | Berkshire | Bristol | Buckinghamshire | Cambridgeshire | Cheshire | Cleveland | Cornwall | Cumbria | Derbyshire | Devon | Dorset | Durham | East Sussex | Essex | Gloucestershire | Greater Manchester | Hampshire | Herefordshire | Hertfordshire | Humberside | Kent | Lancashire | Leicestershire | Lincolnshire | London (Central) | London (East) | London (North) | London (South) | London (West) | Merseyside | Norfolk | North Yorkshire | Northamptonshire | Northumberland | Nottinghamshire | Oxfordshire | Shropshire | Somerset | South Yorkshire | Staffordshire | Suffolk | Surrey | Tyne and Wear | Warwickshire | West Midlands | West Sussex | West Yorkshire | Wiltshire | Worcestershire | Central | Dumfries and Galloway | Edinburgh and Lothians | Fife | Glasgow and Strathclyde | Grampian | Highlands and Islands | Orkney | Scottish Borders | Shetland Islands | Tayside | Mid Wales | North Wales | South Wales | County Antrim | County Armagh | County Down | County Fermanagh | County Londonderry | County Tyrone | Workshops/Seminars | London | South East (excluding London) | South West | Midlands | Yorkshire and the Humber | North West | North East | Scotland | Wales | Northern Ireland | **Business** Shows | London | South East (excluding London) | South West | Midlands | Yorkshire and the Humber | North West | North East | Scotland | Wales | Northern Ireland | Blog | Event Franchises | Show Navigation | Home | Events by Region | Events by City/Town | Events for Women | Workshops/Seminars | **Business** Shows | Blog | Run Your Own Events | Video - King of Bathrooms: how one man challenged an entire industry By Stuart Russell | 19 Aug 2014 | Networking Group Profile: The **Business** Golf **Network** By Stuart Russell | 25 Jun 2014 | Hate networking? Why you're much better at it than you think! By Hannah Martin | 25 Jun 2014 | PCG evolves to become IPSE, the UK's new association for the self-employed By George Evans | 01 Sep 2014 | The **Business Network** - 21 Years Old By Helen Bennett | 21 Aug 2014 | Athena Inspire Conference 2014 By Angela Spiteri | 13 Aug 2014 | Fancy setting up and running your own networking event? | 7 Steps to Creating and Maintaining a Positive Impression | Nervous about Networking? 3 top tips to get you out there | A Quick Guide to **Business** Networking | run your own events | Elite **Business** Banner | Subscribe | Register | Start Your Own **Business** Logo | advertise here | Event Organisers - Upgrade to Premium Profile for less than £3.50/month! | Find out more... | Follow us on Twitter | Login | Contact Us | Subscribe to our Weekly Bulletin | Register to Add Events | Testimonials | Online Marketing Mentoring Sessions | Download 'A Quick Guide to **Business** Networking' | Networking Events by Region | Networking Events by Town/City | Networking Events for Women | Workshops/Seminars | **Business** Shows | Blog | Networking News | Support | Run Your Own Events | Twitter | Facebook | LinkedIn | Terms & Conditions | Privacy Statement
free-business-networking-events.meetup.com/cities/g...7/london/ 133 words in 175 anchor texts	Meetup | Sign up | Log in | Help | About Us | We're Hiring! | Privacy & Terms | Blog | Tech Blog | API | Made in NYC | Find a Meetup Group | Start a Meetup Group | Sign me up! | Let's Meetup! | All Meetups | Meetups with friends | Arts & Culture | Career & **Business** | Cars & Motorcycles | Community & Environment | Dancing | Education & Learning | Fashion & Beauty | Fitness | Food & Drink | Games | Health & Wellbeing | Hobbies & Crafts | LGBT | Language & Ethnic Identity | Lifestyle | Literature & Writing | Movements & Politics | Movies & Film | Music | New Age & Spirituality | Outdoors & Adventure | Paranormal | Parents & Family | Pets & Animals | Photography | Religion & Beliefs | Sci-Fi & Fantasy | Singles | Socializing | Sports & Recreation | Support | Tech | Women | 25 miles | 2

	miles | 5 miles | 10 miles | 25 miles | 50 miles | 100 miles | any distance | London, England, GB | Groups | Calendar | Best match | Recommended | Best match | Most active | Newest | Most members | Closest | Show more | Log in | Terms of Service | Privacy Policy
en.wikipedia.org/wiki/Business_networking 279 words in 129 anchor texts	navigation | search | **Network** marketing | Question book-new.svg | cite | references or sources | improve this article | adding citations to reliable sources | removed | socioeconomic | businesspeople | social **network** | professional **network** service | information technology | cost-effective | advertising | public relations | guanxi | blat | Old boy **network** | weekly | monthly | referrals | one-to-one | Internet | ICT | value chains | value **networks** | 1 General **business** networking | 2 **Networked business** | 3 See also | 4 References | 5 External links | edit | trade show | [1] | edit | confusing or unclear | suppliers | hierarchical | citation needed | edit | Professional **network** service | Personal **Network** | edit | Why Offline Marketing Still Works in a Digital World | edit | Why you should join a referral group | Networking for Introverts | 9 Ways To Leverage Your Online **Business** Networking Activities | **Business** networking: shaping collaboration between enterprises | ISBN | 978-3-540-41351-6 | v | t | e | Employers' organization | Chamber of commerce | Trade association | Cooperative federation | Zaibatsu | Keiretsu | Chaebol | Trade union | Consumer organization | Cartel | http://en.wikipedia.org/w/index.php?title=**Business**_networking&oldid=622894167 | Categories | **Business** models | **Business** terms | Professional Articles lacking sources from June 2014 | All articles lacking sources | | **networks** Wikipedia articles needing clarification from June 2014 | All Wikipedia articles needing clarification | All articles with unsourced statements | Articles with unsourced statements from June 2014 | Create account | Log in | Article | Talk | Read | Edit | View history | Main page | Contents | Featured content | Current events | Random article | Donate to Wikipedia | Wikimedia Shop | Help | About Wikipedia | Community portal | Recent changes | Contact page | What links here | Related changes | Upload file | Special pages | Permanent link | Page information | Wikidata item | Cite this page | Create a book | Download as PDF | Printable Українська | Edit links | Creative Commons | עברית | version | Français Attribution-ShareAlike License | Terms of Use | Privacy Policy | Wikimedia Foundation, Inc. | Privacy policy | About Wikipedia | Disclaimers | Contact Wikipedia | Developers | Mobile view | Wikimedia Foundation | Powered by MediaWiki
www.bl.uk/bipc/busnet/ 112 words in 41 anchor texts	Click here to skip to content | Go | THE BRITISH LIBRARY | **Business** & IP Centre banner image | Home | Visit us | Workshops & events | Advice | Databases & publications | Our partners | About us | Growth | bl.uk | Home | Link 1 | Soul Trader: Your life, your **business**' workshop | Food for thought with Thomasina Miers | Know your elevator pitch! | **Business Networks** - The Do's and Don'ts | workshops and events | Facebook Group | LinkedIn Group | Twitter Feed | **Business** essentials wiki | Knowledge Peers | Startups | Striding Out | Women Unlimited | Join Us on Facebook | Join Us on Youtube | Join Us on Linkedin | Join Us on Twitter | Our Blogs | **Business** Essentials Wiki | See our success stories | View a sample issue | Reference Team | cookie policy | Accessibility | Terms of use | Sitemap
www.biznet-uk.org/ 203 words in 96 anchor texts	Home | About Us | Our Mission | Vision & Mision | Partners | **Business Network** In The Press | Membership | Our Member List | Membership Benefits | Become A Member | What Do We Expect From Our Members | Events | Up Coming Events | Past Events | Advisory Board | Contact | Services | PR Services | Market Research | **Business** Matchmakers | Magazine | Useful Links | Accommodation | facebook | flickr | linkedin | rss | twitter | youtube | email | **business network** logo | Home | About Us | Our Mission | Vision & Mision | Partners | **Business Network** In The Press | Membership | Our Member List | Membership Benefits | Become A Member | What Do We Expect From Our Members | Events | Up Coming Events | Past Events | Advisory Board | Contact | Services | PR Services | Market Research | **Business** Matchmakers | Magazine | Useful Links | Accommodation | PronetHR | logo-site | http://t.co/xWcn5JC7n9 | 28 days ago | http://t.co/hnIB7QQoge | 36 days ago | http://t.co/J8rrabl2tX | 48 days ago | @SuccessfulTurks | http://t.co/v4Y8iVi3q4 | 48 days ago | @SuccessfulTurks | http://t.co/GjMybvW8gm | 48 days ago | @SuccessfulTurks | http://t.co/3KQ749GhEj | 48 days ago | http://t.co/EZCaGDOcGa | 51 days ago | 1 to11 Meeting with Charles Tannock MEP | **Business Network** Annual Iftar Dinner | UK Energy Policy: Squaring the Triangle? | Meeting with Lord Michael Storey CBE | Commercial Councilors & Entrepreneurs Annual Outreach Forum | http://t.co/xWcn5JC7n9 | 28 days ago | http://t.co/hnIB7QQoge | 36 days ago | http://t.co/J8rrabl2tX | 48 days ago
www2.gre.ac.uk/about/schools/business...search/groups/cbna/home 48 words in 18 anchor texts	Top Navigation | Body | Footer | News and events | Contact us | The University of Greenwich | Home | About us | Research projects | Our experts | Publications and reports | Useful links | PhD Scholarships | Five PhD Scholarships available | Academy of Management HCM Division | Summer School in Social **Network** Analysis | © 2013 The University of Greenwich | Accessibility
	Home | About Us | Columnists | Contact | Support in your Area | Events | Navigation | Prowess Women in **Business** | Prowess Women in **Business** | Home | Home | Start & Grow | Marketing & Social Media | Startup Guides | Home **Business** | Growth | Lead & Manage | Mindset | Networking | Online **Business** | Social enterprise | Funding | Funding | Money Saving | Managing Money | Support | Support in your area | Events | Stories | Overcoming Hardship | 50+ | Mums in **business** | Student entrepreneurs | Growth stories | Innovators & Inventors | Campaign | Campaign | Facts | Research & Policy | Return to Content | admin | Tweet | **business** support map | get in touch | How to **network** | Association of Scottish Businesswomen | **Business** Women's Link | Cambridge Businesswomen's **Network** | East London Creative Women **Business Network** | Fabulous Women | Flying Start | Forward Ladies | Highflying Divas | Networking Women | Norwich **Business** Women's **Network** | Rural Women's **Network** | Sussex Women In **Business** | The Athena **Network** | The Women in **Business Network** | 1230 The Women's Company | Vale Women's **Business Network** | WiRE | Women in **Business** Hull | Women in **Business** NI | Women in **Business**

www.prowess.org.uk/womens-business-networks 647 words in 296 anchor texts	(NW) | Women in Management | Women Mean Biz | WIN | Women Outside The Box | Women Unlimited | Women What Do | Women's **Business** Zone | Company of Women | Women's Executive **Network** | The Good, Bad and Ugly of **Business** Networking | Local Support for Women in **Business** | Think, Feel, Do… How to Jump-Start your Self-Confidence | Awards for Women in **Business** Listings | **business** clubs | Events | Networking | Women's **Business Networks** | Top Five Tools For PR Success | Using Pinterest for Market Research | cancel | Sign in with Twitter | Sign in with Facebook | 6 Replies | 5 Comments | 0 Tweets | 0 Facebook | 1 Pingback | Sarah Ainslie | February 20, 2012 | Reply | October 9, 2012 | http://www.cambridgewomen.co.uk | Reply | Jacqui Burke (@jacquiburkefp) | January 5, 2013 | http://t.co/e3j76jeQ | Reply | Start-up Stories: In My Father's Footsteps | Women in **Business** | Prowess 2.0 | February 11, 2013 | Reply | Anna B. Sexton | August 22, 2013 | Reply | Emma Thorpe | 2 months ago | Reply | Sign-up for the Newsletter! | The top-up for women in **business** Monthly | Easy to unsubscribe | Privacy safe. | Popular | Latest | Comments | Tags | General Election 2015 – Why Women in **Business** Need to be on the Agenda | Universal Credit for the Self-Employed: unworkable, unfair and short-sighted | Is work-life balance a myth for home-based female entrepreneurs? | Partnership? Date first! | Why women in **business** is a headline issue | Anne Day, Company of Women | Success is about Making a Difference | marmite | You can never please all the people – Live with it | Should you commit random acts of marketing? | AA van | Ownership of Legal Services Gets More Complicated | Ferdy and Marley on Holiday | Staying on holiday with your **business** | Aelita Lori | "If you've done it once, you can do it again, only better" | Summer Reads: The Growth Story by @SueStockdale | Time for change | Starting your **business** on the side | Katie Day aged 5 | How to reinvent yourself post 50 | Sue-Slique Photography: Amazing story! Well done Aelita! I wish you a succ... | Oliver R.: Hi Sue, Thank you for your instructive guide. O... | Izhar Ul Haq: Its really extreme level of trust, I never see com... | Katie Day: Thank you so much Monalisa, I'm so glad you enjoy... | UTheCenter: Interested in starting your own **business** while in ... | monalisa: Hi,thanks for sharing this article its really nice... | Adrian Brown of 2be2serve: This is taking it the ultimate level of trust and ... | 50+ | Awards | Balance | Banking | Blogging | Boards | Brand | **Business** Support | Childcare | Coaching | communication | Confidence | Creative Industries | Creativity | Featured | Food & Drink | Funding | Growth | Health & Safety | Home **business** | Infographic | Leadership | Management | Marketing | Mentoring | Mumpreneurs | Negotiation | Networking | Online **Business** | passion | Planning | policy | PR | recession | research | Sales | Social media | Start-up | Statistics | Stereotypes | Technology | Time-management | Values | Venture capital | Work-life balance | Follow @ProwessHQ | Tweets by @WomensBiz | Follow this blog | Prowess 2.0 Newsletter Sign-up | About Prowess | Contact | Contributors | Write for Us | 50+ | Balance | Brand | **Business** Support | Childcare | Coaching | communication | Confidence | Creative Industries | Creativity | Funding | Growth | Home **business** | Infographic | Leadership | Management | Marketing | Mentoring | Networking | Online **Business** | Planning | policy | PR | recession | Sales | Social media | Start-up | Technology | Values | Work-life balance | Ebuzzing - Top Blogs - **Business** | Approved Index Best **Business** Blog | Greenwell | Pinterest | Email | **Business** Directory Plugin

Image alt attributes details

1 words in 8 alt texts

Advertisement

Image alt texts of competitors for the keyword **network** contain 60 words in 28 alt texts on average.

Page	Image alt attributes
en.wikipedia.org/wiki/Computer_network 28 words in 23 alt texts	Internet map 1024.jpg | Protocols in relation to the Internet layering scheme. | Telecommunications symbol | Category | Portal | Wikipedia book | Category | Commons page | Portal | Wikiquote page | Wikimedia Foundation | Powered by MediaWiki
en.wikipedia.org/wiki/Network_(film) 6 words in 7 alt texts	Networkmovie.jpg | Wikimedia Foundation | Powered by MediaWiki
www.imdb.com/title/tt0074958/ 174 words in 63 alt texts	advertisement | IMDbPro Menu | Go to IMDbPro | **Network** (1976) Poster | advertisement | list image | list image | list image | list image | list image | **Network** (1976) on IMDb | poll image | poll image | poll image | poll image | poll image | poll image | Still of Faye Dunaway in **Network** (1976) | Still of Faye Dunaway in **Network** (1976) | Still of Faye Dunaway in **Network** (1976) | Still of William Holden and Peter Finch in **Network** (1976) | Still of Peter Finch in **Network** (1976) | Dog Day Afternoon | Chinatown | Cool Hand Luke | The Night of the Hunter | The Grapes of Wrath | The Sting | The Apartment | In the Name of the Father | Touch of Evil | Judgement at Nuremberg | 8½ | The Hustler | Dog Day Afternoon | Chinatown | Cool Hand Luke | The Night of the Hunter | The Grapes of Wrath | The Sting | The Apartment | In the Name of the Father | Touch of Evil | Judgement at Nuremberg | 8½ | The Hustler | Faye Dunaway | William Holden | Peter Finch | Robert Duvall | Wesley Addy | Ned Beatty | Arthur Burghardt | Bill Burrows | John Carpenter | Jordan Charney | Kathy Cronkite | Ed Crowley | Jerome Dempsey | Conchata Ferrell | Gene Gross
www.networkrail.co.uk/ 30 words in 10 alt texts	**Network** Rail Home | Euston throat timelapse photo | Tractor driver level crossing misuse | Briwet Bridge, Cambrian coast | Overnight working on the Hitchin flyover | Track laying | Thameslink-apprentices-at-London-Bridge-station-725 | Unknown soldie at Paddington station
networkonair.com/ 66 words in 65 alt texts	Home | Heli | Ransom | Countess Dracula | 7957079-2D | 7957078-2D | 7954199-2D | 7954198-2D | fb | twit | yt | 7954178-2D | 7957073-2D | 7957062-2D | 7954191-2D | fis_dexion_bridgethumb | 7954179-2D | 7954176-2D | 7957087-2D | 7957079-2D | 7957078-2D | 7954199-2D | 7954198-2D | 7954193-2D | 7957075-2D | 7957088-2D | 7957035-2D | 7954217-2D | 7954272-2D | 7954011-2D | 7957055-2D | 7954220-2D | 7954221-2D | 7954261-2D | 7954218-2D | 7954230-2D | 7954232-2D | 7954229-2D | 7957076-2D | 7957092-2D | 7957077-2D | 7957082-2D | 7954243-2D | 7954207-2D | 7954209-2D | 7954235-2D | 7954215-2D | 7954238-2D | 7952265-2D | 7957021-2D | 7957020-2D | 7954219-2D |

	7954226-2D | 7954185-2D | 7957094-2D | 7954224-2D | 7957083-2D | 7954227-2D | 7954181-2D | 7954225-2D | fb | twit | yt
www.webopedia.com/TERM/N/network.html 16 words in 10 alt texts	Webopedia on Google+ | Webopedia on Twitter | Webopedia on Facebook | Tech Bytes Blog | computer **network** diagram | dcsimg
www.transitionnetwork.org/ 46 words in 25 alt texts	Transition **Network** Logo - Home | Poster | Glowworms | Monbiot | Woods | Cover | Reconomy | nef | Transition Roadshow | book cover: the power of just doing stuff | Transition 2.0 film link | Transition Culture logo | logo: transition free press | Transition training button | REconomy Project | Transition Culture | Transition Training | REconomy Project | In Transition 2.0
www.network-railcard.co.uk/ 33 words in 12 alt texts	**Network** Railcard | **Network** Railcard Area | **Network** Railcard Application Form | Restrictions | Terms and Conditions | Partner Card | **Network** Railcard | **Network** Railcard area map | Great days out with **Network** Railcard | 2FOR1 attractions | Application Form | Cookie Policy
www.policy-network.net/ 179 words in 49 alt texts	Policy **Network** | Owning the Future | A New Age of Technological Progress | Progressive Capitalism | Populism Observatory | Making Progressive Politics Work | Social Democracy Observatory | Owning the Future | Why Institutions Matter in the Eurozone | Mending the Fractured Economy | Making Progressive Politics Work | British Political Parties in Europe | The Unhappy State of the Union | Education, Pre-distribution and Social Justice | Competing in a Race to the Top | The Europe Dilemma | Governing Britain | Contracts not Hand-Outs | Britain's Financial Services Industry in a Changing Europe | Labour's Economic Path to Power | Making Markets Work | A New Promise for Europe | Progressive Politics after the Crash | Economic Governance in a Non-Federal EU | Politics in the Austerity State | Left without a Future? | Takeovers and the Public Interest | Ed Miliband & Ed Balls | Douglas Alexander & Neera Tanden | Policy **Network** | Vince Cable & Peter Mandelson | Chukka Ummuna | Helle Thorning-Schmidt & Martin O'Malley | Loukas Tsoukalis, Megan Greene & André Sapir | Jacob Hacker | Bill Clinton | Herman Van Rompuy | Rachel Reeves & Richard Lambert | Joe Biden & Michelle Bachelet | Roger Liddle | Pascal Lamy | Megan Greene, André Sapir & Loukas Tsoukalis | Policy **Network** | Policy **Network** | Karen Kornbluh | Will Hutton, Anna Diamantopoulou & John Podesta
www.the-network.com/ 21 words in 12 alt texts	Great Britain flag | French flag | German flag | Italian flag | Portugal flag | Spanish flag | Russian flag | The **Network** | StepStone Belgium | The **Network**

Image alt texts of competitors for the keyword **networks** contain 49 words in 22 alt texts on average.

Page	Image alt attributes
en.wikipedia.org/wiki/Computer_network 28 words in 23 alt texts	Internet map 1024.jpg | Protocols in relation to the Internet layering scheme. | Telecommunications symbol | Category | Portal | Wikipedia book | Category | Commons page | Portal | Wikiquote page | Wikimedia Foundation | Powered by MediaWiki
en.wikipedia.org/wiki/Network 7 words in 5 alt texts	Disambiguation icon | Wikimedia Foundation | Powered by MediaWiki
en.wikipedia.org/wiki/Social_network 10 words in 12 alt texts	SNA segment.png | Internet map 1024.jpg | Wikimedia Foundation | Powered by MediaWiki
www.webopedia.com/TERM/N/network.html 16 words in 10 alt texts	Webopedia on Google+ | Webopedia on Twitter | Webopedia on Facebook | Tech Bytes Blog | computer **network** diagram | dcsimg
www.arubanetworks.com/uk/ 2 words in 3 alt texts	Airheads Social
www.arubanetworks.com/ 3 words in 8 alt texts	Menu | Airheads Social
onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0037 25 words in 11 alt texts	Wiley Online Library | Advertisement | Cover image for Vol. 64 Issue 1 | INOC 2015 | Maths Survey | **Networks** Special Issue: Metaheuristics in **Network** Optimization | Advertisement | Advertisement | Wiley
www.journals.elsevier.com/computer-networks/ 91 words in 16 alt texts	Elsevier logo | Facebook | LinkedIn | Twitter | Google Plus | Computer **Networks** | Subscribe to RSS | Click here to find out more about Most Downloaded Computer **Networks** Articles | Computer **Networks** Journal Insights | Audioslides – a new service for authors to present their research | Click here to find out more about Recent Computer **Networks** Articles | Click here to find out more about Most Cited Computer **Networks** Articles | Click here to find out more about Computer **Networks** Open Access Articles | Special Issue on Community **Networks** | Click here to find out more about Computer **Networks** Special Issues | Elsevier Tree
www.cartoonnetwork.com/ 265 words in 104 alt texts	Home | Game | Mobile | Game | Whats New | Game | Tv Promotion | Whats New | Adventure Time Collection | Monsters Ate My Birthday Cake | Finn & Jake's Big Adventure | 'Barry Loser' Activity Sheet | Get kids jokes and funny stuff on Laughternoons | Adventure Time Travel Guides | Adventure Time - Weekdays at 5pm | Amazing World of Gumball | Regular Show | Copa Toon 2014 | Toon Cup 2013 | Adventure Time Character Creator | Adventure Quiz | Mix It Up with Mixels! | Royal Cat Nap | Tom And Jerry: The Missing Mouse | Chin Girl Laugh Remix | Where there's an echo there's a way | Special Guest | Morphing Time | Zombie | Zombie Girls | DNALiens | Rush Escape Spark | Sonic Turbo Fury | Pulse Ambush Energy | Shock Invasion Vilgax | Blaster Fire Plasma | Ambush Mission Alien | Adventure Sonic Siege | Target Challenge Magno | Battle Adventure Energy | Magno Techno Adventure | Bio Bio Nitro | Storm Spike Flash | Claw Blob Breaker | Mega Techno Solar | Ultra Metal Shock | Ultra Metal Crusher | Fire Metal Blaster | Bio Beast Blade | Atomic Blade Blitz | Atomic Beast Blaster | MyCN | Cartoon **Network** | Turner | What a Cartoon | Adventure Time | Angelo Rules | Bakugan Battle Brawlers | Batman : The Brave and the Bold | Battle Force 5 | Ben 10 | Ben 10 Alien Force | Ben 10 Omniverse | Ben 10 Ultimate Alien | Camp Lazlo | Chop Socky Chooks | Chowder | Codename: Kids Next Door | Dexter's Laboratory | Dragons: Defenders of Berk | Ed, Edd and Eddy | Flapjack | Foster's Home for Imaginary Friends | Johnny Bravo | Johnny Test | Mixels | My Gym Partner's a Monkey | Regular Show | Robotboy | Scooby-Doo | Scooby-Doo Mystery Incorporated | Steven Universe | Teen Titans | The Amazing World of Gumball | The Grim Adventures of Billy and Mandy | The Powerpuff Girls | The Secret Saturdays | Thundercats | Tom and Jerry | Toonix | Transformers Prime | Uncle Grandpa

www.juniper.net/uk/en/ 39 words in 25 alt texts	Juniper **Networks** | Choose Country | Close | Deception Force | firefly | Contrail | On24 Private Cloud | JSA Security | Third Annual Mobile Threat Report | Contrail | The Cloud Needs A Flatter **Network** | 10GBE Data Center | j-net | YouTube | Twitter | Facebook | RSS | Rocket Fuel | Rocket Fuel | DCSIMG

Image alt texts of competitors for the keyword **business networks** contain 48 words in 24 alt texts on average.

Page	Image alt attributes
www.theoysterclub.co.uk/ 3 words in 5 alt texts	The Oyster Club
www.londonchamber.co.uk/lcc_public/article.asp?aid=3915 148 words in 77 alt texts	London Chamber of Commerce Logo | About the Chamber | feedback | View our up and coming events, over 200 each year | Barclays Bank | Battersea | Berenberg Bank | Berkley Group | Besso | Boeing | British Airways | British Land | BT | Capita | CBRE | Exterion Media | CH2MHILL | Crofton Design | Devono | DP World London Gateway | Ed's Easy Diner | Ernst Young | Fathom | Gatwick Airport | Growth Accelerator | Hays | Heathrow | HSBC | Knight Frank | KPMG | Lend Lease | Lloyds TSB | London City Airport | London Stansted Airport | Marlin Apartments | Metro Bank | Middlesex University | Mishcon de Reya | Octink | PWC | RBS | Starbucks | Thales | Thames Water | Thunderhead | Turner&Townsend | Tysers | United House | UPS | Virgin Trains | Willis | Book Online | Book Online | Book Online | Institute of Chartered Secretaries and Administrators | Book Online | Institute of Chartered Secretaries and Administrators | Book Online | Book Online | Book Online | Book Online | Institute of Chartered Secretaries and Administrators | Book Online | Book Online | Lynhurst Press Limited | Book Online | Institute of Chartered Secretaries and Administrators | Book Online
www.business-network.co.uk/ 9 words in 4 alt texts	**Business**-logo | left image | green box top | green box bottom
findnetworkingevents.com/ 67 words in 13 alt texts	Vibrant **Network** banner | FindNetworkingEvents | Networking Group Profile: The **Business** Golf **Network** | Hate networking? Why you're much better at it than you think! | Fancy setting up and running your own networking event? | 7 Steps to Creating and Maintaining a Positive Impression | Nervous about Networking? 3 top tips to get you out there | run your own events | Elite **Business** Banner | subscribe | register | Start Your Own **Business** Logo | advertise here
free-business-networking-events.meetup.com/cities/g...7/london/ 1 words in 1 alt texts	Meetup
en.wikipedia.org/wiki/Business_networking 7 words in 5 alt texts	Question book-new.svg | Wikimedia Foundation | Powered by MediaWiki
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	Computer **network** From Wikipedia, the free encyclopedia Jump to: navigation , search **Network** science Theory Graph Complex **network** Contagion Small-world Scale-free Community structure Percolation Evolution Controllability Graph drawing Social capital Link analysis Optimization Reciprocity Closure Homophily Transitivity Preferential attachment Balance theory **Network** effect Social influence **Network** types Informational (computing) Telecommunication Social Biological Artificial neural Interdependent Semantic Random graph Spatial Dependency Flow Graphs Features Clique Component Cut Cycle Data structure Edge Loop Neighborhood Path Vertex Adjacency list / matrix Incidence list / matrix Types Bipartite Complete Directed Hyper Multi Random Weighted Metrics Algorithms Centrality Degree Betweenness Closeness PageRank Motif Clustering Degree distribution Assortativity Distance Modularity Models Random graph Erdős–Rényi Barabási–Albert Watts–Strogatz Exponential random (ERGM) Epidemic Hierarchical Lists Topics Software **Network** scientists Categories Graph theory **Network** theory v t e A computer **network** or data **network** is a telecommunications **network** that allows computers to exchange data . In computer **networks**, **networked** computing devices pass data to each other along data connections. Data is transferred in the form of packets. The connections (**network** links) between nodes are established using either cable media or wireless media . The best-known computer **network** is the Internet . **Network** computer devices that originate, route and terminate the data are called **network** nodes . [1] Nodes can include hosts such as personal computers , phones , servers as well as networking hardware . Two such devices are said to be **networked** together when one device is able to exchange information with the other device, whether or not they have a direct connection to each other. Computer **networks** support applications such as access to the World Wide Web , shared use of application and storage servers , printers , and fax machines, and use of email and instant messaging applications. Computer **networks** differ in the physical media used to transmit their signals, the communications protocols to organize **network** traffic, the **network**'s size, topology and organizational intent. Contents 1 History 2 Properties 3 **Network** packet 4 **Network** topology 4.1 **Network** links 4.1.1 Wired technologies 4.1.2 Wireless technologies 4.1.3 Exotic technologies 4.2 **Network** nodes 4.2.1 **Network** interfaces 4.2.2 Repeaters and hubs 4.2.3 Bridges 4.2.4 Switches 4.2.5 Routers 4.2.6 Modems 4.2.7 Firewalls 4.3 **Network** structure 4.3.1 Common layouts 4.3.2 Overlay **network** 5 Communications protocols 5.1 Ethernet 5.2 Internet Protocol Suite 5.3 SONET/SDH 5.4 Asynchronous Transfer Mode 6 Geographic scale 7 Organizational scope 7.1 Intranets 7.2 Extranet 7.3 Internetwork 7.4 Internet 7.5 Darknet 8 Routing 9 **Network** service 10 **Network** performance 10.1 Quality of service 10.2 **Network** congestion 10.3 **Network** resilience 11 Security 11.1 **Network** security 11.2 **Network** surveillance 11.3 End to end encryption 12 Views of **networks** 13 See also 14 References 15 Further reading 16 External links History [edit] See also: History of the Internet Today, computer **networks** are the core of modern communication. All modern aspects of the public switched telephone **network** (PSTN) are computer-controlled. Telephony increasingly runs over the Internet Protocol, although not necessarily the public Internet. The scope of communication has increased significantly in the past decade. This boom in communications would not have been possible without the progressively advancing computer **network**. Computer **networks**, and the technologies that make communication between **networked** computers possible, continue to drive computer hardware, software, and peripherals industries. The expansion of related industries is mirrored by growth in the numbers and types of people using **networks**, from the researcher to the home user. The following is a chronology of significant computer **network** developments: In the late 1950s, early **networks** of communicating computers included the military radar system Semi-Automatic Ground Environment (SAGE). In 1960, the commercial airline reservation system semi-automatic **business** research environment (SABRE) went online with two connected mainframes. In 1962, J.C.R. Licklider developed a working group he called the " Intergalactic Computer **Network** ", a precursor to the ARPANET , at the Advanced Research Projects Agency (ARPA). In 1964, researchers at Dartmouth developed the Dartmouth Time Sharing System for distributed users of large computer systems. The same year, at Massachusetts Institute of Technology , a research group supported by General Electric and Bell Labs used a computer to route and manage telephone connections. Throughout the 1960s, Leonard Kleinrock , Paul Baran , and Donald Davies independently developed **network** systems that used packets to transfer information between computers over a **network**. In 1965, Thomas Marill and Lawrence G. Roberts created the first wide area **network** (WAN). This was an immediate precursor to the ARPANET , of which Roberts became program manager. Also in 1965, the first widely used telephone switch that implemented true computer control was introduced by Western Electric . In 1969, the University of California at Los Angeles , the Stanford Research Institute , the University of California at Santa Barbara , and the University of Utah were connected as the beginning of the ARPANET **network** using 50 kbit/s circuits. [2] In 1972, commercial services using X.25 were deployed, and later used as an underlying infrastructure for expanding TCP/IP **networks**. In 1973, Robert Metcalfe wrote a formal memo at Xerox PARC describing Ethernet , a networking system that was based on the Aloha **network** , developed in the 1960s by Norman Abramson and colleagues at the University of Hawaii . In July 1976, Robert Metcalfe and David Boggs published their paper "Ethernet: Distributed Packet Switching for Local Computer **Networks**" [3] and collaborated on several patents received in 1977 and 1978. In 1979, Robert Metcalfe pursued making Ethernet an open standard. [4] In 1976, John Murphy of Datapoint Corporation created ARCNET , a token-passing **network** first used to share storage devices. In 1995, the transmission speed capacity for Ethernet was increased from 10 Mbit/s to 100 Mbit/s. By 1998, Ethernet supported transmission speeds of a Gigabit. The ability of Ethernet to scale easily (such as quickly adapting to support new fiber optic cable speeds) is a contributing factor to its continued use today. [4] Properties [edit] Computer networking may be considered a branch of electrical engineering , telecommunications , computer science , information technology or computer engineering , since it relies upon the theoretical and practical application of the related disciplines. A computer **network** facilitates interpersonal communications allowing people to communicate efficiently and easily via email, instant messaging, chat rooms, telephone, video telephone calls, and video conferencing. Providing access to information on shared storage devices is an important feature of many **networks**. A **network** allows sharing of files, data, and other types of information giving authorized users the ability to access information stored on other computers on the **network**. A **network** allows sharing of **network** and computing resources. Users may access and use resources provided by devices on the **network**, such as printing a document on a shared **network** printer. Distributed computing uses computing resources across a **network** to accomplish tasks. A computer **network** may be used by computer Crackers to deploy computer viruses or computer worms on devices connected to the **network**, or to prevent these devices from accessing the **network** (denial of service). A complex computer **network** may be difficult to set up. It may be costly to set up an effective computer **network** in a large organization. **Network** packet [edit] Main article: **Network** packet Most information in computer **networks** is carried in packets . A **network** packet is a formatted unit of data (a list of bits or bytes) carried by a packet-switched **network** . Computer communications links that do not support packets, such as traditional point-to-point telecommunications links , simply transmit data as a bit stream . When data is formatted into packets, the bandwidth of the communication medium can be better shared among users than if the **network** were circuit switched . A packet consists of two kinds of data: control information and user data (also known as payload). The control information provides data the **network** needs to deliver the user data, for example:

source and destination **network** addresses , error detection codes, and sequencing information. Typically, control information is found in packet headers and trailers , with payload data in between. **Network** topology [edit] Main article: **Network** topology The physical layout of a **network** is usually less important than the topology that connects **network** nodes. Most diagrams that describe a physical **network** are therefore topological, rather than geographic. The symbols on these diagrams usually denote **network** links and **network** nodes. **Network** links [edit] The communication media used to link devices to form a computer **network** include electrical cable (HomePNA , power line communication , G.hn), optical fiber (fiber-optic communication), and radio waves (wireless networking). In the OSI model , these are defined at layers 1 and 2 — the physical layer and the data link layer. A widely adopted family of communication media used in local area **network** (LAN) technology is collectively known as Ethernet . The media and protocol standards that enable communication between **networked** devices over Ethernet are defined by IEEE 802.3 . Ethernet transmit data over both copper and fiber cables. Wireless LAN standards (e.g. those defined by IEEE 802.11) use radio waves , or others use infrared signals as a transmission medium. Power line communication uses a building's power cabling to transmit data. Wired technologies [edit] Fiber optic cables are used to transmit light from one computer/**network** node to another The orders of the following wired technologies are, roughly, from slowest to fastest transmission speed. Twisted pair wire is the most widely used medium for all telecommunication. Twisted-pair cabling consist of copper wires that are twisted into pairs. Ordinary telephone wires consist of two insulated copper wires twisted into pairs. Computer **network** cabling (wired Ethernet as defined by IEEE 802.3) consists of 4 pairs of copper cabling that can be utilized for both voice and data transmission. The use of two wires twisted together helps to reduce crosstalk and electromagnetic induction . The transmission speed ranges from 2 million bits per second to 10 billion bits per second. Twisted pair cabling comes in two forms: unshielded twisted pair (UTP) and shielded twisted-pair (STP). Each form comes in several category ratings, designed for use in various scenarios. Coaxial cable is widely used for cable television systems, office buildings, and other work-sites for local area **networks**. The cables consist of copper or aluminum wire surrounded by an insulating layer (typically a flexible material with a high dielectric constant), which itself is surrounded by a conductive layer. The insulation helps minimize interference and distortion. Transmission speed ranges from 200 million bits per second to more than 500 million bits per second. ITU-T G.hn technology uses existing home wiring (coaxial cable , phone lines and power lines) to create a high-speed (up to 1 Gigabit/s) local area **network**. An optical fiber is a glass fiber. It carries pulses of light that represent data. Some advantages of optical fibers over metal wires are very low transmission loss and immunity from electrical interference. Optical fibers can simultaneously carry multiple wavelengths of light, which greatly increases the rate that data can be sent, and helps enable data rates of up to trillions of bits per second. Optic fibers can be used for long runs of cable carrying very high data rates, and are used for undersea cables to interconnect continents. Price is a main factor distinguishing wired- and wireless-technology options in a **business**. Wireless options command a price premium that can make purchasing wired computers, printers and other devices a financial benefit. Before making the decision to purchase hard-wired technology products, a review of the restrictions and limitations of the selections is necessary. **Business** and employee needs may override any cost considerations. [5] Wireless technologies [edit] Computers are very often connected to **networks** using wireless links Main article: Wireless **network** Terrestrial microwave – Terrestrial microwave communication uses Earth-based transmitters and receivers resembling satellite dishes. Terrestrial microwaves are in the low-gigahertz range, which limits all communications to line-of-sight. Relay stations are spaced approximately 48 km (30 mi) apart. Communications satellites – Satellites communicate via microwave radio waves, which are not deflected by the Earth's atmosphere. The satellites are stationed in space, typically in geosynchronous orbit 35,400 km (22,000 mi) above the equator. These Earth-orbiting systems are capable of receiving and relaying voice, data, and TV signals. Cellular and PCS systems use several radio communications technologies. The systems divide the region covered into multiple geographic areas. Each area has a low-power transmitter or radio relay antenna device to relay calls from one area to the next area. Radio and spread spectrum technologies – Wireless local area **networks** use a high-frequency radio technology similar to digital cellular and a low-frequency radio technology. Wireless LANs use spread spectrum technology to enable communication between multiple devices in a limited area. IEEE 802.11 defines a common flavor of open-standards wireless radio-wave technology known as Wifi . Free-space optical communication uses visible or invisible light for communications. In most cases, line-of-sight propagation is used, which limits the physical positioning of communicating devices. Exotic technologies [edit] There have been various attempts at transporting data over exotic media: IP over Avian Carriers was a humorous April fool's Request for Comments , issued as RFC 1149 . It was implemented in real life in 2001. [6] Extending the Internet to interplanetary dimensions via radio waves. [7] Both cases have a large round-trip delay time , which gives slow two-way communication, but doesn't prevent sending large amounts of information. **Network** nodes [edit] Main article: Node (networking) Apart from the physical communications media described above, **networks** comprise additional basic system building blocks, such as **network** interface controller (NICs), repeaters , hubs , bridges , switches , routers , modems , and firewalls . **Network** interfaces [edit] An ATM **network** interface in the form of an accessory card. A lot of **network** interfaces are built-in. A **network** interface controller (NIC) is computer hardware that provides a computer with the ability to access the transmission media, and has the ability to process low-level **network** information. For example the NIC may have a connector for accepting a cable, or an aerial for wireless transmission and reception, and the associated circuitry. The NIC responds to traffic addressed to a **network** address for either the NIC or the computer as a whole. In Ethernet **networks**, each **network** interface controller has a unique Media Access Control (MAC) address—usually stored in the controller's permanent memory. To avoid address conflicts between **network** devices, the Institute of Electrical and Electronics Engineers (IEEE) maintains and administers MAC address uniqueness. The size of an Ethernet MAC address is six octets . The three most significant octets are reserved to identify NIC manufacturers. These manufacturers, using only their assigned prefixes, uniquely assign the three least-significant octets of every Ethernet interface they produce. Repeaters and hubs [edit] A repeater is an electronic device that receives a **network** signal , cleans it of unnecessary noise, and regenerates it. The signal is retransmitted at a higher power level, or to the other side of an obstruction, so that the signal can cover longer distances without degradation. In most twisted pair Ethernet configurations, repeaters are required for cable that runs longer than 100 meters. With fiber optics, repeaters can be tens or even hundreds of kilometers apart. A repeater with multiple ports is known as a hub . Repeaters work on the physical layer of the OSI model. Repeaters require a small amount of time to regenerate the signal. This can cause a propagation delay that affects **network** performance. As a result, many **network** architectures limit the number of repeaters that can be used in a row, e.g., the Ethernet 5-4-3 rule . Hubs have been mostly obsoleted by modern switches; but repeaters are used for long distance links, notably undersea cabling. Bridges [edit] A **network** bridge connects and filters traffic between two **network** segments at the data link layer (layer 2) of the OSI model to form a single **network**. This breaks the **network**'s collision domain but maintains a unified broadcast domain. **Network** segmentation breaks down a large, congested **network** into an aggregation of smaller, more efficient **networks**. Bridges come in three basic types: Local bridges: Directly connect LANs Remote bridges: Can be used to create a wide area **network** (WAN) link between LANs. Remote bridges, where the connecting link is slower than the end **networks**, largely have been replaced with routers. Wireless bridges: Can be used to join LANs or connect remote devices to LANs. Switches [edit] A **network** switch is a device that forwards and filters OSI layer 2 datagrams between ports based on the MAC addresses in the packets. [8] A switch is distinct from a hub in that it only forwards the frames to the physical ports involved in the communication rather than all ports connected. It can be thought of as a multi-port bridge. [9] It learns to associate physical ports to MAC addresses by examining the source addresses of received frames. If an unknown destination is targeted, the switch broadcasts to all ports but the source. Switches

normally have numerous ports, facilitating a star topology for devices, and cascading additional switches. Multi-layer switches are capable of routing based on layer 3 addressing or additional logical levels. The term switch is often used loosely to include devices such as routers and bridges, as well as devices that may distribute traffic based on load or based on application content (e.g., a Web URL identifier). Routers [edit] A typical home or small office router showing the ADSL telephone line and Ethernet **network** cable connections A router is an internetworking device that forwards packets between **networks** by processing the routing information included in the packet or datagram (Internet protocol information from layer 3). The routing information is often processed in conjunction with the routing table (or forwarding table). A router uses its routing table to determine where to forward packets. (A destination in a routing table can include a "null" interface, also known as the "black hole" interface because data can go into it, however, no further processing is done for said data.) Modems [edit] Modems (MOdulator-DEModulator) are used to connect **network** nodes via wire not originally designed for digital **network** traffic, or for wireless. To do this one or more frequencies are modulated by the digital signal to produce an analog signal that can be tailored to give the required properties for transmission. Modems are commonly used for telephone lines, using a Digital Subscriber Line technology. Firewalls [edit] A firewall is a **network** device for controlling **network** security and access rules. Firewalls are typically configured to reject access requests from unrecognized sources while allowing actions from recognized ones. The vital role firewalls play in **network** security grows in parallel with the constant increase in cyber attacks . **Network** structure [edit] **Network** topology is the layout or organizational hierarchy of interconnected nodes of a computer **network**. Different **network** topologies can affect throughput, but reliability is often more critical. With many technologies, such as bus **networks**, a single failure can cause the **network** to fail entirely. In general the more interconnections there are, the more robust the **network** is; but the more expensive it is to install. Common layouts [edit] Common **network** topologies Common layouts are: A bus **network** : all nodes are connected to a common medium along this medium. This was the layout used in the original Ethernet , called 10BASE5 and 10BASE2 . A star **network** : all nodes are connected to a special central node. This is the typical layout found in a Wireless LAN , where each wireless client connects to the central Wireless access point . A ring **network** : each node is connected to its left and right neighbour node, such that all nodes are connected and that each node can reach each other node by traversing nodes left- or rightwards. The Fiber Distributed Data Interface (FDDI) made use of such a topology. A mesh **network** : each node is connected to an arbitrary number of neighbours in such a way that there is at least one traversal from any node to any other. A fully connected **network** : each node is connected to every other node in the **network**. A tree **network** : nodes are arranged hierarchically. Note that the physical layout of the nodes in a **network** may not necessarily reflect the **network** topology. As an example, with FDDI , the **network** topology is a ring (actually two counter-rotating rings), but the physical topology is often a star, because all neighboring connections can be routed via a central physical location. Overlay **network** [edit] A sample overlay **network** An overlay **network** is a virtual computer **network** that is built on top of another **network**. Nodes in the overlay **network** are connected by virtual or logical links. Each link corresponds to a path, perhaps through many physical links, in the underlying **network**. The topology of the overlay **network** may (and often does) differ from that of the underlying one. For example, many peer-to-peer **networks** are overlay **networks**. They are organized as nodes of a virtual system of links that run on top of the Internet. [10] Overlay **networks** have been around since the invention of networking when computer systems were connected over telephone lines using modems , before any data **network** existed. The most striking example of an overlay **network** is the Internet itself. The Internet itself was initially built as an overlay on the telephone **network** . [10] Even today, at the **network** layer, each node can reach any other by a direct connection to the desired IP address, thereby creating a fully connected **network**. The underlying **network**, however, is composed of a mesh-like interconnect of sub-**networks** of varying topologies (and technologies). Address resolution and routing are the means that allow mapping of a fully connected IP overlay **network** to its underlying **network**. Another example of an overlay **network** is a distributed hash table , which maps keys to nodes in the **network**. In this case, the underlying **network** is an IP **network**, and the overlay **network** is a table (actually a map) indexed by keys. Overlay **networks** have also been proposed as a way to improve Internet routing, such as through quality of service guarantees to achieve higher-quality streaming media . Previous proposals such as IntServ , DiffServ , and IP Multicast have not seen wide acceptance largely because they require modification of all routers in the **network**. [citation needed] On the other hand, an overlay **network** can be incrementally deployed on end-hosts running the overlay protocol software, without cooperation from Internet service providers . The overlay **network** has no control over how packets are routed in the underlying **network** between two overlay nodes, but it can control, for example, the sequence of overlay nodes that a message traverses before it reaches its destination. For example, Akamai Technologies manages an overlay **network** that provides reliable, efficient content delivery (a kind of multicast). Academic research includes end system multicast, [11] resilient routing and quality of service studies, among others. Communications protocols [edit] The TCP/IP model or Internet layering scheme and its relation to common protocols often layered on top of it. A communications protocol is a set of rules for exchanging information over **network** links. In a protocol stack (also see the OSI model), each protocol leverages the services of the protocol below it. An important example of a protocol stack is HTTP running over TCP over IP over IEEE 802.11 . (TCP and IP are members of the Internet Protocol Suite . IEEE 802.11 is a member of the Ethernet protocol suite.) This stack is used between the wireless router and the home user's personal computer when the user is surfing the web. Whilst the use of protocol layering is today ubiquitous across the field of computer networking, it has been historically criticized by many researchers [12] for two principle reasons. Firstly, abstracting the protocol stack in this way may cause a higher layer to duplicate functionality of a lower layer, a prime example being error recovery on both a per-link basis and an end-to-end basis. [13] Secondly, it is common that a protocol implementation at one layer may require data, state or addressing information that is only present at another layer, thus defeating the point of separating the layers in the first place. For example, TCP uses the ECN field in the IPv4 header as an indication of congestion; IP is a **network** layer protocol whereas TCP is a transport layer protocol. Communication protocols have various characteristics. They may be connection-oriented or connectionless , they may use circuit mode or packet switching , and they may use hierarchical addressing or flat addressing. There are many communication protocols, a few of which are described below. Ethernet [edit] Ethernet is a family of protocols used in LANs, described by a set of standards together called IEEE 802 published by the Institute of Electrical and Electronics Engineers . It has a flat addressing scheme. It operates mostly at levels 1 and 2 of the OSI model . For home users today, the most well-known member of this protocol family is IEEE 802.11 , otherwise known as Wireless LAN (WLAN). The complete IEEE 802 protocol suite provides a diverse set of networking capabilities. For example, MAC bridging (IEEE 802.1D) deals with the routing of Ethernet packets using a Spanning Tree Protocol , IEEE 802.1Q describes VLANs , and IEEE 802.1X defines a port-based **Network** Access Control protocol, which forms the basis for the authentication mechanisms used in VLANs (but it is also found in WLANs) – it is what the home user sees when the user has to enter a "wireless access key". Internet Protocol Suite [edit] The Internet Protocol Suite , also called TCP/IP, is the foundation of all modern networking. It offers connection-less as well as connection-oriented services over an inherently unreliable **network** traversed by data-gram transmission at the Internet protocol (IP) level. At its core, the protocol suite defines the addressing, identification, and routing specifications for Internet Protocol Version 4 (IPv4) and for IPv6, the next generation of the protocol with a much enlarged addressing capability. SONET/SDH [edit] Synchronous optical networking (SONET) and Synchronous Digital Hierarchy (SDH) are standardized multiplexing protocols that transfer multiple digital bit streams over optical fiber using lasers. They were originally designed to transport circuit mode communications from a variety of different sources, primarily to support real-time, uncompressed, circuit-switched voice encoded in PCM (Pulse-Code Modulation) format. However, due to its protocol neutrality and transport-oriented

features, SONET/SDH also was the obvious choice for transporting Asynchronous Transfer Mode (ATM) frames. Asynchronous Transfer Mode [edit] Asynchronous Transfer Mode (ATM) is a switching technique for telecommunication **networks**. It uses asynchronous time-division multiplexing and encodes data into small, fixed-sized cells . This differs from other protocols such as the Internet Protocol Suite or Ethernet that use variable sized packets or frames . ATM has similarity with both circuit and packet switched networking. This makes it a good choice for a **network** that must handle both traditional high-throughput data traffic, and real-time, low-latency content such as voice and video. ATM uses a connection-oriented model in which a virtual circuit must be established between two endpoints before the actual data exchange begins. While the role of ATM is diminishing in favor of next-generation **networks** , it still plays a role in the last mile , which is the connection between an Internet service provider and the home user. For an interesting write-up of the technologies involved, including the deep stacking of communications protocols used, see. [14] Geographic scale [edit] A **network** can be characterized by its physical capacity or its organizational purpose. Use of the **network**, including user authorization and access rights, differ accordingly. Personal area **network** A personal area **network** (PAN) is a computer **network** used for communication among computer and different information technological devices close to one person. Some examples of devices that are used in a PAN are personal computers, printers, fax machines, telephones, PDAs, scanners, and even video game consoles. A PAN may include wired and wireless devices. The reach of a PAN typically extends to 10 meters. [15] A wired PAN is usually constructed with USB and FireWire connections while technologies such as Bluetooth and infrared communication typically form a wireless PAN. Local area **network** A local area **network** (LAN) is a **network** that connects computers and devices in a limited geographical area such as a home, school, office building, or closely positioned group of buildings. Each computer or device on the **network** is a node . Wired LANs are most likely based on Ethernet technology. Newer standards such as ITU-T G.hn also provide a way to create a wired LAN using existing wiring, such as coaxial cables, telephone lines, and power lines. [16] A LAN is depicted in the accompanying diagram. All interconnected devices use the **network** layer (layer 3) to handle multiple subnets (represented by different colors). Those inside the library have 10/100 Mbit/s Ethernet connections to the user device and a Gigabit Ethernet connection to the central router . They could be called Layer 3 switches , because they only have Ethernet interfaces and support the Internet Protocol . It might be more correct to call them access routers, where the router at the top is a distribution router that connects to the Internet and to the academic **networks'** customer access routers. The defining characteristics of a LAN, in contrast to a wide area **network** (WAN), include higher data transfer rates , limited geographic range, and lack of reliance on leased lines to provide connectivity. Current Ethernet or other IEEE 802.3 LAN technologies operate at data transfer rates up to 10 Gbit/s. The IEEE investigates the standardization of 40 and 100 Gbit/s rates. [17] A LAN can be connected to a WAN using a router . Home area **network** A home area **network** (HAN) is a residential LAN used for communication between digital devices typically deployed in the home, usually a small number of personal computers and accessories, such as printers and mobile computing devices. An important function is the sharing of Internet access, often a broadband service through a cable TV or digital subscriber line (DSL) provider. Storage area **network** A storage area **network** (SAN) is a dedicated **network** that provides access to consolidated, block level data storage. SANs are primarily used to make storage devices, such as disk arrays, tape libraries, and optical jukeboxes, accessible to servers so that the devices appear like locally attached devices to the operating system. A SAN typically has its own **network** of storage devices that are generally not accessible through the local area **network** by other devices. The cost and complexity of SANs dropped in the early 2000s to levels allowing wider adoption across both enterprise and small to medium sized **business** environments. Campus area **network** A campus area **network** (CAN) is made up of an interconnection of LANs within a limited geographical area. The networking equipment (switches, routers) and transmission media (optical fiber, copper plant, Cat5 cabling, etc.) are almost entirely owned by the campus tenant / owner (an enterprise, university, government, etc.). For example, a university campus **network** is likely to link a variety of campus buildings to connect academic colleges or departments, the library, and student residence halls. Backbone **network** A backbone **network** is part of a computer **network** infrastructure that provides a path for the exchange of information between different LANs or sub-**networks**. A backbone can tie together diverse **networks** within the same building, across different buildings, or over a wide area. For example, a large company might implement a backbone **network** to connect departments that are located around the world. The equipment that ties together the departmental **networks** constitutes the **network** backbone. When designing a **network** backbone, **network** performance and **network** congestion are critical factors to take into account. Normally, the backbone **network**'s capacity is greater than that of the individual **networks** connected to it. Another example of a backbone **network** is the Internet backbone , which is the set of wide area **networks** (WANs) and core routers that tie together all **networks** connected to the Internet . Metropolitan area **network** A Metropolitan area **network** (MAN) is a large computer **network** that usually spans a city or a large campus. Wide area **network** A wide area **network** (WAN) is a computer **network** that covers a large geographic area such as a city, country, or spans even intercontinental distances. A WAN uses a communications channel that combines many types of media such as telephone lines, cables, and air waves. A WAN often makes use of transmission facilities provided by common carriers, such as telephone companies. WAN technologies generally function at the lower three layers of the OSI reference model : the physical layer , the data link layer , and the **network** layer . Enterprise private **network** An enterprise private **network** is a **network** that a single organization builds to interconnect its office locations (e.g., production sites, head offices, remote offices, shops) so they can share computer resources. Virtual private **network** A virtual private **network** (VPN) is an overlay **network** in which some of the links between nodes are carried by open connections or virtual circuits in some larger **network** (e.g., the Internet) instead of by physical wires. The data link layer protocols of the virtual **network** are said to be tunneled through the larger **network** when this is the case. One common application is secure communications through the public Internet, but a VPN need not have explicit security features, such as authentication or content encryption. VPNs, for example, can be used to separate the traffic of different user communities over an underlying **network** with strong security features. VPN may have best-effort performance, or may have a defined service level agreement (SLA) between the VPN customer and the VPN service provider. Generally, a VPN has a topology more complex than point-to-point. Global area **network** A global area **network** (GAN) is a **network** used for supporting mobile across an arbitrary number of wireless LANs, satellite coverage areas, etc. The key challenge in mobile communications is handing off user communications from one local coverage area to the next. In IEEE Project 802, this involves a succession of terrestrial wireless LANs . [18] Organizational scope [edit] **Networks** are typically managed by the organizations that own them. Private enterprise **networks** may use a combination of intranets and extranets. They may also provide **network** access to the Internet , which has no single owner and permits virtually unlimited global connectivity. Intranets [edit] An intranet is a set of **networks** that are under the control of a single administrative entity. The intranet uses the IP protocol and IP-based tools such as web browsers and file transfer applications. The administrative entity limits use of the intranet to its authorized users. Most commonly, an intranet is the internal LAN of an organization. A large intranet typically has at least one web server to provide users with organizational information. An intranet is also anything behind the router on a local area **network**. Extranet [edit] An extranet is a **network** that is also under the administrative control of a single organization, but supports a limited connection to a specific external **network**. For example, an organization may provide access to some aspects of its intranet to share data with its **business** partners or customers. These other entities are not necessarily trusted from a security standpoint. **Network** connection to an extranet is often, but not always, implemented via WAN technology. Internetwork [edit] An internetwork is the connection of multiple computer **networks** via a common routing technology using routers. Internet [edit] Partial map of the Internet based on the January 15, 2005 data found on opte.org .

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Each line is drawn between two nodes, representing two IP addresses . The length of the lines are indicative of the delay between those two nodes. This graph represents less than 30% of the Class C **networks** reachable. The Internet is the largest example of an internetwork. It is a global system of interconnected governmental, academic, corporate, public, and private computer **networks**. It is based on the networking technologies of the Internet Protocol Suite . It is the successor of the Advanced Research Projects Agency **Network** (ARPANET) developed by DARPA of the United States Department of Defense . The Internet is also the communications backbone underlying the World Wide Web (WWW). Participants in the Internet use a diverse array of methods of several hundred documented, and often standardized, protocols compatible with the Internet Protocol Suite and an addressing system (IP addresses) administered by the Internet Assigned Numbers Authority and address registries . Service providers and large enterprises exchange information about the reachability of their address spaces through the Border Gateway Protocol (BGP), forming a redundant worldwide mesh of transmission paths. Darknet [edit] A Darknet is an overlay **network**, typically running on the internet, that is only accessible through specialized software. A darknet is an anonymizing **network** where connections are made only between trusted peers — sometimes called "friends" (F2F) [19] — using non-standard protocols and ports . Darknets are distinct from other distributed peer-to-peer **networks** as sharing is anonymous (that is, IP addresses are not publicly shared), and therefore users can communicate with little fear of governmental or corporate interference. [20] Routing [edit] Routing calculates good paths through a **network** for information to take. For example from node 1 to node 6 the best routes are likely to be 1-8-7-6 or 1-8-10-6, as this has the thickest routes. Routing is the process of selecting **network** paths to carry **network** traffic. Routing is performed for many kinds of **networks**, including circuit switching **networks** and packet switched **networks** . In packet switched **networks**, routing directs packet forwarding (the transit of logically addressed **network** packets from their source toward their ultimate destination) through intermediate nodes . Intermediate nodes are typically **network** hardware devices such as routers , bridges , gateways , firewalls , or switches . General-purpose computers can also forward packets and perform routing, though they are not specialized hardware and may suffer from limited performance. The routing process usually directs forwarding on the basis of routing tables , which maintain a record of the routes to various **network** destinations. Thus, constructing routing tables, which are held in the router's memory , is very important for efficient routing. Most routing algorithms use only one **network** path at a time. Multipath routing techniques enable the use of multiple alternative paths. There are usually multiple routes that can be taken, and to choose between them, different elements can be considered to decide which routes get installed into the routing table, such as (sorted by priority): Prefix-Length : where longer subnet masks are preferred (independent if it is within a routing protocol or over different routing protocol) Metric : where a lower metric/cost is preferred (only valid within one and the same routing protocol) Administrative distance : where a lower distance is preferred (only valid between different routing protocols) Routing, in a more narrow sense of the term, is often contrasted with bridging in its assumption that **network** addresses are structured and that similar addresses imply proximity within the **network**. Structured addresses allow a single routing table entry to represent the route to a group of devices. In large **networks**, structured addressing (routing, in the narrow sense) outperforms unstructured addressing (bridging). Routing has become the dominant form of addressing on the Internet. Bridging is still widely used within localized environments. **Network** service [edit] **Network** services are applications hosted by servers on a computer **network**, to provide some functionality for members or users of the **network**, or to help the **network** itself to operate. The World Wide Web , E-mail , [21] printing and **network** file sharing are examples of well-known **network** services. **Network** services such as DNS (Domain Name System) give names for IP and MAC addresses (people remember names like “nm.lan” better than numbers like “210.121.67.18”), [22] and DHCP to ensure that the equipment on the **network** has a valid IP address. [23] Services are usually based on a service protocol that defines the format and sequencing of messages between clients and servers of that **network** service. **Network** performance [edit] Quality of service [edit] Depending on the installation requirements, **network** performance is usually measured by the quality of service of a telecommunications product. The parameters that affect this typically can include throughput , jitter , bit error rate and latency . The following list gives examples of **network** performance measures for a circuit-switched **network** and one type of packet-switched **network** , viz. ATM: Circuit-switched **networks**: In circuit switched **networks**, **network** performance is synonymous with the grade of service . The number of rejected calls is a measure of how well the **network** is performing under heavy traffic loads. [24] Other types of performance measures can include the level of noise and echo. ATM: In an Asynchronous Transfer Mode (ATM) **network**, performance can be measured by line rate, quality of service (QoS), data throughput, connect time, stability, technology, modulation technique and modem enhancements. [25] There are many ways to measure the performance of a **network**, as each **network** is different in nature and design. Performance can also be modelled instead of measured. For example, state transition diagrams are often used to model queuing performance in a circuit-switched **network**. The **network** planner uses these diagrams to analyze how the **network** performs in each state, ensuring that the **network** is optimally designed. [26] **Network** congestion [edit] **Network** congestion occurs when a link or node is carrying so much data that its quality of service deteriorates. Typical effects include queueing delay , packet loss or the blocking of new connections. A consequence of these latter two is that incremental increases in offered load lead either only to small increase in **network** throughput , or to an actual reduction in **network** throughput. **Network** protocols that use aggressive retransmissions to compensate for packet loss tend to keep systems in a state of **network** congestion—even after the initial load is reduced to a level that would not normally induce **network** congestion. Thus, **networks** using these protocols can exhibit two stable states under the same level of load. The stable state with low throughput is known as congestive collapse . Modern **networks** use congestion control and congestion avoidance techniques to try to avoid congestion collapse. These include: exponential backoff in protocols such as 802.11 's CSMA/CA and the original Ethernet , window reduction in TCP , and fair queueing in devices such as routers . Another method to avoid the negative effects of **network** congestion is implementing priority schemes, so that some packets are transmitted with higher priority than others. Priority schemes do not solve **network** congestion by themselves, but they help to alleviate the effects of congestion for some services. An example of this is 802.1p . A third method to avoid **network** congestion is the explicit allocation of **network** resources to specific flows. One example of this is the use of Contention-Free Transmission Opportunities (CFTXOPs) in the ITU-T G.hn standard, which provides high-speed (up to 1 Gbit/s) Local area networking over existing home wires (power lines, phone lines and coaxial cables). For the Internet RFC 2914 addresses the subject of congestion control in detail. **Network** resilience [edit] **Network** resilience is "the ability to provide and maintain an acceptable level of service in the face of faults and challenges to normal operation.” [27] Security [edit] **Network** security [edit] **Network** security consists of provisions and policies adopted by the **network** administrator to prevent and monitor unauthorized access, misuse, modification, or denial of the computer **network** and its **network**-accessible resources. [28] **Network** security is the authorization of access to data in a **network**, which is controlled by the **network** administrator. Users are assigned an ID and password that allows them access to information and programs within their authority. **Network** security is used on a variety of computer **networks**, both public and private, to secure daily transactions and communications among **businesses**, government agencies and individuals. **Network** surveillance [edit] **Network** surveillance is the monitoring of data being transferred over computer **networks** such as the Internet . The monitoring is often done surreptitiously and may be done by or at the behest of governments, by corporations, criminal organizations, or individuals. It may or may not be legal and may or may not require authorization from a court or other independent agency. Computer and **network** surveillance programs are widespread today, and almost all Internet traffic is or could potentially be monitored for clues to illegal activity. Surveillance is very useful to governments and law enforcement to maintain social control , recognize and monitor threats, and

prevent/investigate criminal activity. With the advent of programs such as the Total Information Awareness program, technologies such as high speed surveillance computers and biometrics software, and laws such as the Communications Assistance For Law Enforcement Act , governments now possess an unprecedented ability to monitor the activities of citizens. [29] However, many civil rights and privacy groups—such as Reporters Without Borders , the Electronic Frontier Foundation , and the American Civil Liberties Union —have expressed concern that increasing surveillance of citizens may lead to a mass surveillance society, with limited political and personal freedoms. Fears such as this have led to numerous lawsuits such as Hepting v. AT&T . [29] [30] The hacktivist group Anonymous has hacked into government websites in protest of what it considers "draconian surveillance". [31] [32] End to end encryption [edit] End-to-end encryption (E2EE) is a digital communications paradigm of uninterrupted protection of data traveling between two communicating parties. It involves the originating party encrypting data so only the intended recipient can decrypt it, with no dependency on third parties. End-to-end encryption prevents intermediaries, such as Internet providers or application service providers , from discovering or tampering with communications. End-to-end encryption generally protects both confidentiality and integrity . Examples of end-to-end encryption include PGP for email , OTR for instant messaging , ZRTP for telephony , and TETRA for radio. Typical server -based communications systems do not include end-to-end encryption. These systems can only guarantee protection of communications between clients and servers , not between the communicating parties themselves. Examples of non-E2EE systems are Google Talk , Yahoo Messenger , Facebook , and Dropbox . Some such systems, for example LavaBit and SecretInk, have even described themselves as offering "end-to-end" encryption when they do not. Some systems that normally offer end-to-end encryption have turned out to contain a back door that subverts negotiation of the encryption key between the communicating parties, for example Skype . The end-to-end encryption paradigm does not directly address risks at the communications endpoints themselves, such as the technical exploitation of clients , poor quality random number generators , or key escrow . E2EE also does not address traffic analysis , which relates to things such as the identities of the end points and the times and quantities of messages that are sent. Views of **networks** [edit] Users and **network** administrators typically have different views of their **networks**. Users can share printers and some servers from a workgroup, which usually means they are in the same geographic location and are on the same LAN, whereas a **Network** Administrator is responsible to keep that **network** up and running. A community of interest has less of a connection of being in a local area, and should be thought of as a set of arbitrarily located users who share a set of servers, and possibly also communicate via peer-to-peer technologies. **Network** administrators can see **networks** from both physical and logical perspectives. The physical perspective involves geographic locations, physical cabling, and the **network** elements (e.g., routers , bridges and application layer gateways) that interconnect the physical media. Logical **networks**, called, in the TCP/IP architecture, subnets , map onto one or more physical media. For example, a common practice in a campus of buildings is to make a set of LAN cables in each building appear to be a common subnet, using virtual LAN (VLAN) technology. Both users and administrators are aware, to varying extents, of the trust and scope characteristics of a **network**. Again using TCP/IP architectural terminology, an intranet is a community of interest under private administration usually by an enterprise, and is only accessible by authorized users (e.g. employees). [33] Intranets do not have to be connected to the Internet, but generally have a limited connection. An extranet is an extension of an intranet that allows secure communications to users outside of the intranet (e.g. **business** partners, customers). [33] Unofficially, the Internet is the set of users, enterprises, and content providers that are interconnected by Internet Service Providers (ISP). From an engineering viewpoint, the Internet is the set of subnets, and aggregates of subnets, which share the registered IP address space and exchange information about the reachability of those IP addresses using the Border Gateway Protocol . Typically, the human-readable names of servers are translated to IP addresses, transparently to users, via the directory function of the Domain Name System (DNS). Over the Internet, there can be **business**-to-**business** (B2B) , **business**-to-consumer (B2C) and consumer-to-consumer (C2C) communications. When money or sensitive information is exchanged, the communications are apt to be protected by some form of communications security mechanism. Intranets and extranets can be securely superimposed onto the Internet, without any access by general Internet users and administrators, using secure Virtual Private **Network** (VPN) technology. 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Model External links [edit] Networking at DMOZ IEEE Ethernet manufacturer information v t e Telecommunications History Beacon Broadcasting Communications satellite Computer **network** Drums Electrical telegraph Fax Heliographs Hydraulic telegraph Internet Mass media Mobile phone Optical telecommunication Optical telegraphy Photophone Prepaid mobile phone Radio Radiotelephone Satellite communications Smoke signals Telecommunications history Telegraphy Telephone The Telephone Cases Television Timeline of communication technology Undersea telegraph line Videoconferencing Videophone Videotelephony Pioneers Edwin Howard Armstrong John Logie Baird Alexander Graham Bell Tim Berners-Lee Jagadish Chandra Bose Vint Cerf Claude Chappe Lee de Forest Philo Farnsworth Reginald Fessenden Elisha Gray Guglielmo Marconi Alexander Stepanovich Popov Johann Philipp Reis Nikola Tesla Camille Papin Tissot Alfred Vail Charles Wheatstone Vladimir K. Zworykin Transmission media Coaxial cable Free-space optical Optical fiber Radio waves Telephone lines Terrestrial microwave **Network** topology and switching Links Nodes Terminal node **Network** switching (circuit packet) Telephone exchange Multiplexing Space-division Frequency-division Time-division Polarization-division Orbital angular-momentum Code-division **Networks** ARPANET BITNET Computer Ethernet FidoNet Internet ISDN LAN Mobile NGN Public Switched Telephone Radio Telecommunications equipment Television Telex WAN Wireless World Wide Web By continent v t e Telecommunications in Africa Sovereign states Algeria Angola Benin Botswana Burkina Faso Burundi Cameroon Cape Verde Central African Republic Chad Comoros Democratic Republic of the Congo Republic of the Congo Djibouti Egypt Equatorial Guinea Eritrea Ethiopia Gabon The Gambia Ghana Guinea Guinea-Bissau Ivory Coast (Côte d'Ivoire) Kenya Lesotho Liberia Libya Madagascar Malawi Mali Mauritania Mauritius Morocco Mozambique Namibia Niger Nigeria Rwanda São Tomé and Príncipe Senegal Seychelles Sierra Leone Somalia South Africa South Sudan Sudan Swaziland Tanzania Togo Tunisia Uganda Zambia Zimbabwe States with limited recognition Sahrawi Arab Democratic Republic Somaliland Dependencies and other territories Canary Islands / Ceuta / Melilla / Plazas de soberanía (Spain) Madeira (Portugal) Mayotte / Réunion (France) Saint Helena / Ascension Island / Tristan da Cunha (United Kingdom) Western Sahara v t e Telecommunications in Asia Sovereign states Afghanistan Armenia Azerbaijan Bahrain Bangladesh Bhutan Brunei Burma (Myanmar) Cambodia China Cyprus East Timor (Timor-Leste) Egypt Georgia India Indonesia Iran Iraq Israel Japan Jordan Kazakhstan North Korea South Korea Kuwait Kyrgyzstan Laos Lebanon Malaysia Maldives Mongolia Nepal Oman Pakistan Philippines Qatar Russia Saudi Arabia Singapore Sri Lanka Syria Tajikistan Thailand Turkey Turkmenistan United Arab Emirates Uzbekistan Vietnam Yemen States with limited 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protection Paging Security rings Segmentation fault Virtual memory Storage access and file systems Boot loader Defragmentation Device file File attribute Inode Journal Partition Virtual file system Virtual tape library List AmigaOS Android BeOS BSD DOS GNU Hurd iOS Linux Mac OS MorphOS OpenVMS OS/2 OSv QNX ReactOS RISC OS Solaris TPF Unix VM/CMS Windows z/OS Miscellaneous concepts API Computer **network** HAL Live CD Live USB OS shell CLI GUI TUI VUI PXE v t e Technology Outline of technology Outline of applied science Fields Agriculture Agricultural engineering Aquaculture Fisheries science Food chemistry Food engineering Food microbiology Food technology GURT ICT Nutrition Biomedical Bioinformatics Biological engineering Biomechatronics Biomedical engineering Biotechnology Cheminformatics Genetic engineering Healthcare science Medical research Medical technology Nanomedicine Neuroscience Neurotechnology Pharmacology Reproductive technology Tissue engineering Buildings and Construction Acoustical engineering Architectural engineering Building services engineering Civil engineering Construction engineering Domestic technology Facade engineering Fire protection engineering Safety engineering Sanitary engineering Structural engineering Educational Educational software Digital technologies in education ICT in education Impact Multimedia learning Virtual campus Virtual education Energy Nuclear engineering Nuclear technology Petroleum engineering Soft energy technology Environmental Clean technology Clean coal technology Ecological design Ecological engineering Ecotechnology Environmental engineering Environmental engineering science Green building Green nanotechnology Landscape engineering Renewable energy Sustainable design Sustainable engineering Industrial Automation **Business** informatics Engineering management Enterprise engineering Financial engineering Industrial biotechnology Industrial engineering Metallurgy Mining engineering Productivity 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Machine Skill Craft Tool Gadget Scales Femtotechnology Picotechnology Nanotechnology Microtechnology Macro-engineering Megascale engineering History Prehistoric technology Neolithic Revolution Ancient technology Medieval technology Renaissance technology Industrial Revolution Second Jet Age Digital Revolution Information Age Theories and concepts Appropriate technology

Critique of technology Diffusion of innovations Disruptive innovation Dual-use technology Ephemeralization Ethics of technology High tech Hype cycle Low-technology Mature technology Philosophy of technology Strategy of Technology Technicism Techno-progressivism Technocapitalism Technocentrism Technocracy Technocriticism Technoetic Technoethics Technogaianism Technological alliance Technological apartheid Technological change Technological convergence Technological determinism Technological escalation Technological evolution Technological fix Technological innovation system Technological momentum Technological nationalism Technological paradigm Technological rationality Technological revival Technological revolution Technological self-efficacy Technological singularity Singularitarianism Technological somnambulism Technological transitions Technological unemployment Technological utopianism Technology lifecycle Technology acceptance model Technology adoption lifecycle Technomancy Technorealism Technoromanticism Technoscience Transhumanism Other Emerging technologies List Fictional technology Technopaganism High-technology **business** districts Kardashev scale List of technologies Science, technology and society Technology dynamics Science and technology Science and technology by country STEM fields Pre-STEM women STEAM fields Technology alignment Technology assessment Technology brokering Technology companies Technology demonstration Technology education Technical universities and colleges Technology evangelist Technology fusion Technology governance Technology integration Technology journalism Technology management Technology policy Technology shock Technology strategy Technology and society Technology transfer Technophilia Technophobia Technoself Technosignature Technostress Book Category Commons Portal Wikiquotes Retrieved from " http://en.wikipedia.org/w/index.php?title=Computer_**network**&oldid= 623818468 " Categories : Computer **networks** Computer networking Telecommunications engineering Hidden categories: Pages containing cite templates with deprecated parameters All articles with unsourced statements Articles with unsourced statements from August 2010 Wikipedia articles incorporating text from the Federal Standard 1037C Articles with DMOZ links Navigation menu Personal tools Create account Log in Namespaces Article Talk Variants Views Read Edit View history More Search Navigation Main page Contents Featured content Current events Random article Donate to Wikipedia Wikimedia Shop Interaction Help About Wikipedia Community portal Recent changes Contact page Tools What links here Related changes Upload file Special pages Permanent link Page information Wikidata item Cite this page Print/export Create a book ??????? Az?rbaycanca ??????? ???? Download as PDF Printable version Languages Afrikaans ????? Bân-lâm-gú ?????????? ?????????? (???????????) ????????? Bosanski Brezhoneg Català Français Gaeilge Galego ????? ?eština Dansk Deutsch Eesti ???????? Español Esperanto Euskara ????? ??????? ??? ??????? ?????? Hrvatski Bahasa Indonesia Interlingua Íslenska Italiano ??????? ??????? Kiswahili Kurdî ???????? Latviešu Lëtzebuergesch Lietuvi? Limburgs Magyar ?????????? ?????? ????????? Bahasa Melayu Mirandés ?????? ?????????? Nederlands ??? Plattdüütsch Polski ???? Norsk bokmål Norsk nynorsk Occitan ???? ????? O?zbekcha ?????? ?? Português Român? Runa Simi ??????? Scots Shqip ????? Simple English Sloven?ina Slovenš?ina ????????????? Suomi Svenska Tagalog ????? ?????? ???/ srpski Srpskohrvatski/ ?????? ??? ?? Edit links This page was last modified on 2 ?????? Ti?ng Vi?t ???? ?????? Türkçe ?????????? September 2014 at 06:20. Text is available under the Creative Commons Attribution-ShareAlike License ; additional terms may apply. By using this site, you agree to the Terms of Use and Privacy Policy . Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc. , a non-profit organization. Privacy policy About Wikipedia Disclaimers Contact Wikipedia Developers Mobile view

Network (film) From Wikipedia, the free encyclopedia Jump to: navigation , search **Network** Theatrical release poster Directed by Sidney Lumet Produced by Howard Gottfried Fred C. Caruso Written by Paddy Chayefsky Starring Faye Dunaway William Holden Peter Finch Robert Duvall Narrated by Lee Richardson Music by Elliot Lawrence Cinematography Owen Roizman Edited by Alan Heim Production company Metro-Goldwyn-Mayer United Artists Distributed by United Artists Release date(s) November 27, 1976 (1976-11-27) Running time 121 minutes [1] Country United States Language English Budget $3.8 million Box office $23,689,877 [2] **Network** is a 1976 American satirical film written by Paddy Chayefsky and directed by Sidney Lumet , about a fictional television **network** , UBS, and its struggle with poor ratings . The film stars Faye Dunaway , William Holden , Peter Finch , and Robert Duvall and features Wesley Addy , Ned Beatty , and Beatrice Straight . The film won four Academy Awards , in the categories of Best Actor (Finch), Best Actress (Dunaway), Best Supporting Actress (Straight), and Best Original Screenplay (Chayefsky). In 2000, the film was selected for preservation in the United States National Film Registry by the Library of Congress as being "culturally, historically, or aesthetically significant". In 2002 , it was inducted into the Producers Guild of America Hall of Fame as a film that has "set an enduring standard for U.S. American entertainment". [3] In 2006, Chayefsky's script was voted one of the top-ten screenplays by the Writers Guild of America, East . In 2007, the film was 64th among the 100 greatest American films as chosen by the American Film Institute , a ranking slightly higher than the one AFI had given it ten years earlier . Contents 1 Plot 2 Cast 3 Production 4 Release 4.1 Critical reception 5 Awards and honors 5.1 Academy Awards 5.2 Golden Globes 5.3 BAFTA Awards 5.4 American Film Institute 6 In popular culture 7 References 8 External links Plot [edit] Howard Beale , the longtime anchor of the Union Broadcasting System 's UBS Evening News , learns from the news division president, Max Schumacher, that he has just two more weeks on the air because of declining ratings. The two old friends get roaring drunk and lament the state of their industry. The following night, Beale announces on live television that he will commit suicide on next Tuesday's broadcast. [4] UBS fires him after this incident, but Schumacher intervenes so that Beale can have a dignified farewell. Beale promises he will apologize for his outburst, but once on the air, he launches back into a rant claiming that life is "bullshit". Beale's outburst causes the newscast's ratings to spike, and much to Schumacher's dismay, the upper echelons of UBS decide to exploit Beale's antics rather than pull him off the air. In one impassioned diatribe, Beale galvanizes the nation, persuading his viewers to shout out of their windows "I'm as mad as hell, and I'm not going to take this anymore!" Howard Beale delivering his "mad as hell" speech Diana Christensen heads the **network**'s programming department; seeking just one hit show, she cuts a deal with a band of radical terrorists (a parody of the Symbionese Liberation Army called the "Ecumenical Liberation Army") for a new docudrama series called the Mao Tse-Tung Hour for the upcoming fall season. When Beale's ratings seem to have topped out, Christensen approaches Schumacher and offers to help him "develop" the news show. He says no to the professional offer, but not to the personal one, and the two begin an affair. When Schumacher decides to end the Howard as the "Angry Man" format, Christensen convinces her boss, Frank Hackett, to slot the evening news show under the entertainment division so she can develop it. Hackett agrees, bullies the UBS executives to consent, and fires Schumacher at the same time. Soon afterward, Beale is hosting a new program called The Howard Beale Show , top-billed as "the mad prophet of the airwaves". Ultimately, the show becomes the most highly rated program on television, and Beale finds new celebrity preaching his angry message in front of a live studio audience that, on cue, chants Beale's signature catchphrase en masse : "We're as mad as hell, and we're not going to take this anymore." At first, Max and Diana's romance withers as the show flourishes, but in the flush of high ratings, the two ultimately find their way back together, and Schumacher leaves his wife of over 25 years for Christensen. But Christensen's fanatical devotion to her job and emotional emptiness ultimately drive Max back to his wife, and he warns his former lover that she will self-destruct at the pace she is running with her career. "You are television incarnate, Diana," he tells her, "indifferent to suffering, insensitive to joy. All of life is reduced to the common rubble of banality." When Beale discovers that Communications Company of America (CCA), the conglomerate that owns UBS, will be bought out by an even larger Saudi Arabian conglomerate , he launches an on-screen tirade against the deal, encouraging viewers to send telegrams to the White House telling them, "I want the CCA deal stopped now!" This throws the top

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network brass into a state of panic because the company's debt load has made merger essential for survival. Hackett takes Beale to meet with CCA chairman Arthur Jensen, who explicates his own "corporate cosmology " to the attentive Beale. Jensen delivers a tirade of his own in an "appropriate setting", the dramatically darkened CCA boardroom, that suggests to the docile Beale that Jensen may himself be some higher power—describing the interrelatedness of the participants in the international economy and the illusory nature of nationality distinctions. Jensen persuades Beale to abandon the populist messages and preach his new "evangel". But television audiences find his new sermons on the dehumanization of society depressing, and ratings begin to slide, yet Jensen will not allow UBS executives to fire Beale. Seeing its two-for-the-price-of-one value—solving the Beale problem plus sparking a boost in season-opener ratings—Christensen, Hackett, and the other executives decide to hire the Ecumenical Liberation Army to assassinate Beale on the air. The assassination succeeds, putting an end to The Howard Beale Show and kicking off a second season of The Mao Tse-Tung Hour . The film ends with the narrator stating: "This was the story of Howard Beale, the first known instance of a man who was killed because he had lousy ratings." Cast [edit] Faye Dunaway as Diana Christensen William Holden as Max Schumacher Peter Finch as Howard Beale Robert Duvall as Frank Hackett Wesley Addy as Nelson Chaney Ned Beatty as Arthur Jensen Beatrice Straight as Louise Schumacher Jordan Charney as Harry Hunter William Prince as Edward Ruddy Lane Smith as Robert McDonough Marlene Warfield as Laureen Hobbs Conchata Ferrell as Barbara Schlesinger Carolyn Krigbaum as Max's secretary Arthur Burghardt as the Great Ahmet Khan Cindy Grover as Caroline Schumacher Darryl Hickman as Bill Herron Lee Richardson as Narrator (voice) Cast notes Kathy Cronkite (Walter Cronkite 's daughter) appears as kidnapped heiress, Mary Ann Gifford. Lance Henriksen has a small uncredited role as a **network** lawyer at the meetings in Diana Christensen's Los Angeles office and at Ahmet Khan's home. Ken Kercheval make an appearance as a lawyer in the negotiation scene. Some sources indicate that Tim Robbins has a small, non-speaking role at the end of the film as one of the assassins who kills Beale; [5] however, Robbins has publicly stated that he did not appear in the film. [6] Production [edit] This section needs additional citations for verification . Please help improve this article by adding citations to reliable sources . Unsourced material may be challenged and removed. (January 2013) Part of the inspiration for Chayefsky's script came from the on-air suicide of television news reporter Christine Chubbuck in Sarasota, Florida two years earlier. [7] The anchorwoman was suffering from depression and battles with her editors, and unable to keep going, she shot herself on camera as stunned viewers watched on July 15, 1974. Chayefsky used the incident to set up his film's focal point. As he would say later in an interview, "Television will do anything for a rating... anything!" The character of **network** executive Diana Christiansen was based on NBC daytime television programming executive Lin Bolen , [8] which Bolen disputed. [9] Chayefsky and producer Howard Gottfried had just come off a lawsuit against United Artists , challenging the studio's right to lease their previous film, The Hospital , to ABC in a package with a less successful film. Despite this recent lawsuit, Chayefsky and Gottfried signed a deal with UA to finance **Network** , until UA found the subject matter too controversial and backed out. Undeterred, Chayefsky and Gottfried shopped the script around to other studios, and eventually found an interested party in MGM . Soon afterward, UA reversed itself and looked to co-finance the film with MGM, which for the past several years had distributed through UA in the US. MGM agreed to let UA back on board, and gave it the international distribution rights, with MGM controlling North American/Caribbean rights. Release [edit] The film premiered in New York City on November 27, 1976, and went into wide release shortly afterward. Critical reception [edit] The film became one of the big hits of 1976–77 and got big receipts and reviews. Vincent Canby , in his November 1976 review of the film for The New York Times , called the film "outrageous ... brilliantly, cruelly funny, a topical American comedy that confirms Paddy Chayefsky's position as a major new American satirist" and a film whose "wickedly distorted views of the way television looks, sounds, and, indeed, is, are the satirist's cardiogram of the hidden heart, not just of television but also of the society that supports it and is, in turn, supported." [10] On review aggregator website Rotten Tomatoes , **Network** currently holds a 91% "fresh" rating based on 53 reviews. [11] In a review of the film written after it received its Academy Awards, Roger Ebert called it a "supremely well-acted, intelligent film that tries for too much, that attacks not only television but also most of the other ills of the 1970s," though "what it does accomplish is done so well, is seen so sharply, is presented so unforgivingly, that **Network** will outlive a lot of tidier movies." [12] Seen a quarter-century later, Ebert added the film to his "Great Movies" list and said the film was "like prophecy. When Chayefsky created Howard Beale, could he have imagined Jerry Springer , Howard Stern , and the World Wrestling Federation ?"; he credits Lumet and Chayefsky for knowing "just when to pull out all the stops." [13] The film also ranks at number 100 in Empire magazine's list of the 500 Greatest Films of All Time. [14] Not all reviews were positive: Pauline Kael in The New Yorker , in a review subtitled "Hot Air", criticized the film's abundance of long, preachy speeches; Chayefsky's self-righteous contempt for not only television itself but also television viewers; and the fact that almost everyone in the movie, particularly Robert Duvall, has a screaming rant: "The cast of this messianic farce takes turns yelling at us soulless masses." [15] Michael Billington wrote, "Too much of this film has the hectoring stridency of tabloid headlines", [16] while Chris Petit in Time Out described it as "slick, 'adult', self-congratulatory, and almost entirely hollow", adding that "most of the interest comes in watching such a lavishly mounted vehicle leaving the rails so spectacularly." [17] Awards and honors [edit] Academy Awards [edit] **Network** won three of the four acting awards. As of 2014, **Network** is the last film to have won three of the four Academy Awards for acting. Won Best Actor – Peter Finch Best Actress – Faye Dunaway Best Supporting Actress – Beatrice Straight Best Writing, Screenplay Written Directly for the Screen – Paddy Chayefsky Finch died before the 1977 ceremony and was the only performer to win a posthumous Academy Award until Heath Ledger won a Best Supporting Actor Oscar in 2009. The statuette itself was collected by Finch's widow, Eletha Finch. Straight's performance as Louise Schumacher occupied only five minutes and two seconds of screen time, making it the shortest performance to win an Oscar (as of 2014), breaking Gloria Grahame 's nine minutes and 32 seconds screen time record for The Bad and the Beautiful in 1953. [18] Nominated Best Actor – William Holden Best Supporting Actor – Ned Beatty Best Cinematography – Owen Roizman Best Film Editing – Alan Heim Best Director – Sidney Lumet Best Picture Golden Globes [edit] Won Best Actor in a Motion Picture – Drama – Peter Finch Best Actress in a Motion Picture – Drama – Faye Dunaway Best Director – Sidney Lumet Best Screenplay – Paddy Chayefsky Nominated Best Motion Picture – Drama BAFTA Awards [edit] Won Best Actor – Peter Finch Nominated Best Film Best Direction – Sidney Lumet Best Actor – William Holden Best Actress – Faye Dunaway Best Supporting Actor – Robert Duvall Best Screenplay – Paddy Chayefsky Best Editing – Alan Heim Best Sound – Jack Fitzstephens, Marc Laub, Sanford Rackow, James Sabat, and Dick Vorisek American Film Institute [edit] AFI's 100 Years...100 Movies – #66 AFI's 100 Years...100 Laughs – Nominated AFI's 100 Years...100 Heroes & Villains : Diana Christensen – Nominated Villain AFI's 100 Years...100 Movie Quotes : "I'm as mad as hell, and I'm not going to take this anymore!" – #19 AFI's 100 Years...100 Movies (10th Anniversary Edition) – #64 In popular culture [edit] The film's noted line "I'm as mad as hell, and I'm not going to take this anymore" and its derivatives are referenced in numerous films and other media, including Mad As Hell a satirical Australian news show starring Shaun Micallef . [19] The short-lived series Studio 60 on the Sunset Strip mentions the film and its writer Chayefsky multiple times after a character's outburst on live television. The show's creator Aaron Sorkin also mentioned the film and Chayefsky during his acceptance speech after winning the Academy Award for writing the film The Social **Network** . [20] References [edit] ^ " **NETWORK** (AA)" . United Artists . British Board of Film Classification . November 1, 1976 . Retrieved July 11, 2014 . ^ "**Network**, Box Office Information" . Box Office Mojo . Retrieved January 23, 2012 . ^ Archive of Producers Guild Hall of Fame - Past Inductees , Producers Guild of America official site. Accessed October 31, 2010. Original site . ^ Because Chayefsky started writing the screenplay during the same month that newscaster Christine Chubbuck committed on-air suicide, some, including Matthew C. Ehrlich in

Journalism in the Movies (ISBN 0252029348), have speculated (p. 122) that the scene was inspired by Chubbuck's manner of death. ^ Ebert, Roger (October 29, 2000). "**Network** (1976)" . robertebert.com . Chicago Sun-Times . Retrieved October 31, 2011 . ^ Interview on Little Steven's Underground Garage "Video of the 500th Show Celebration - Replay" (October 18, 2011) ^ Empire : "Television will eat itself in Sidney Lumet's searing satire", October 1, 2008; via allbusiness.com ^ Google Books: "Looking for Gatsby" By Faye Dunaway and Betsy Sharkey, p.304. ^ UPI, via Milwaukee Sentinel and Google News, "Producer Lin Bolen Denies She's '**Network**' Character", July 31, 1978. ^ Review of **Network** from the November 15, 1976 edition of The New York Times ^ "**Network**" . Rotten Tomatoes . Flixster . Retrieved July 11, 2014 . ^ Review of **Network** by Roger Ebert from the 1970s ^ Review of **Network** by Roger Ebert from October 2000 ^ "The 500 Greatest Movies Of All Time" . Empire . Bauer Media Group. Archived from the original on August 17, 2011 . Retrieved August 17, 2011 . ^ Kael, Pauline (December 6, 1976). "Hot Air". The New Yorker : 177. ^ Halliwell, Leslie (1987). Halliwell's Film Guide, 6th edition . New York, NY: Charles Scribner's Sons. p. 729. ISBN 0-684-19051-6 . ^ Milne, Tom (editor) (1993). Time Out Film Guide, The (3rd Edition) . Hammondsworth, Middlesex: Penguin. p. 486. ISBN 0-14-017513-X . ^ Stone, Jay. "Oscar by the Numbers" (February 2014) ^ "Airdate: Shaun Micallef's Mad as Hell" . TV Tonight. ^ "Screenplay by Aaron Sorkin Academy Awards Acceptance Speech" . Academy of Motion Picture Arts and Sciences. Further reading Itzkoff, David , "Notes of a Screenwriter, Mad as Hell" , The New York Times , May 19, 2011 External links [edit] Wikiquote has quotations related to: **Network** (film) **Network** at the Internet Movie Database **Network** at the TCM Movie Database **Network** at Box Office Mojo **Network** at Rotten Tomatoes Awards Preceded by One Flew Over the Cuckoo's Nest Academy Award winner for Best Actor and Best Actress Succeeded by Coming Home Preceded by Who's Afraid of Virginia Woolf? Academy Award winner for Best Actress and Best Supporting Actress Succeeded by Moonstruck v t e Films directed by Sidney Lumet 12 Angry Men (1957) Stage Struck (1958) That Kind of Woman (1959) The Fugitive Kind (1959) A View from the Bridge (1962) Long Day's Journey Into Night (1962) The Pawnbroker (1964) Fail-Safe (1964) The Hill (1965) The Group (1966) The Deadly Affair (1967) Bye Bye Braverman (1968) The Sea Gull (1968) The Appointment (1969) King: A Filmed Record... Montgomery to Memphis (1970) Last of the Mobile Hot Shots (1970) The Anderson Tapes (1971) Child's Play (1972) The Offence (1972) Serpico (1973) Lovin' Molly (1974) Murder on the Orient Express (1974) Dog Day Afternoon (1975) **Network** (1976) Equus (1977) The Wiz (1978) Just Tell Me What You Want (1980) Prince of the City (1981) Deathtrap (1982) The Verdict (1982) Daniel (1983) Garbo Talks (1984) Power (1986) The Morning After (1986) Running on Empty (1988) Family **Business** (1989) Q & A (1990) A Stranger Among Us (1992) Guilty as Sin (1993) Night Falls on Manhattan (1997) Critical Care (1997) Gloria (1999) Strip Search (2004) Find Me Guilty (2006) Before the Devil Knows You're Dead (2007) Retrieved from " film)&oldid= 616570533 " Categories : 1976 films)_http://en.wikipedia.org/w/index.php?title=**Network** English-language films 1970s comedy-drama films American comedy-drama films American satirical films Films directed by Sidney Lumet Screenplays by Paddy Chayefsky Films about television Films featuring a Best Actor Academy Award winning performance Films featuring a Best Actress Academy Award winning performance Films featuring a Best Drama Actor Golden Globe winning performance Films featuring a Best Drama Actress Golden Globe winning performance Films featuring a Best Supporting Actress Academy Award winning performance Films set in New York City Films whose director won the Best Director Golden Globe Films whose writer won the Best Original Screenplay Academy Award United States National Film Registry films United Artists films Metro-Goldwyn-Mayer films Hidden categories: Use mdy dates from April 2012 All film articles using the film date template Articles needing additional references from January 2013 All articles needing additional references Navigation menu Personal tools Create account Log in Namespaces Article Talk Variants Views Read Edit View history More Search Navigation Main page Contents Featured content Current events Random article Donate to Wikipedia Wikimedia Shop Interaction Help About Wikipedia Community portal Recent changes Contact page Tools What links here Related changes Upload file Special pages Permanent link Page information Wikidata ??????? export Create a book Download as PDF Printable version Languages/item Cite this page Print Français Hrvatski Italiano ????? ????????? 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See more awards » Photos 50 photos | 380 news articles » Learn more People who liked this also liked... ◄ Prev 6 Next 6 ► 0 Next » Dog Day Afternoon (1975) Crime | Drama 1 2 3 4 5 6 7 8 9 10 8.1 / 10 X A man robs a bank to pay for his lover's operation; it turns into a hostage situation and a media circus. Director: Sidney Lumet Stars: Al Pacino, John Cazale, Penelope Allen 0 Next » Chinatown (1974) Drama | Mystery | Thriller 1 2 3 4 5 6 7 8 9 10 8.3 / 10 X A private detective hired to expose an adulterer finds himself caught up in a web of deceit, corruption and murder. Director: Roman Polanski Stars: Jack Nicholson, Faye Dunaway, John Huston 0 Next » Cool Hand Luke (1967) Crime | Drama 1 2 3 4 5 6 7 8 9 10 8.2 / 10 X A man refuses to conform to life in a rural prison. Director: Stuart Rosenberg Stars: Paul Newman, George Kennedy, Strother Martin 0 Next » The Night of the Hunter (1955) Crime | Film-Noir | Thriller 1 2 3 4 5 6 7 8 9 10 8.1 / 10 X A religious fanatic marries a gullible widow whose young children are reluctant to tell him where their real daddy hid $10,000 he'd stolen in a robbery. Directors: Charles Laughton, Robert Mitchum, and 1 more credit » Stars: Robert Mitchum, Shelley Winters, Lillian Gish 0 Next » The Grapes of Wrath (1940) Certificate: A Drama 1 2 3 4 5 6 7 8 9 10 8.2 / 10 X A poor Midwest family is forced off of their land. They travel to California, suffering the misfortunes of the homeless in the Great Depression. Director: John Ford Stars: Henry Fonda, Jane Darwell, John Carradine 0 Next » The Sting (1973) Certificate: A Comedy | Crime | Drama 1 2 3 4 5 6 7 8 9 10 8.4 / 10 X In 1930s Chicago, a young con man seeking revenge for his murdered partner teams up with a master of the big con to win a fortune from a criminal banker. Director: George Roy Hill Stars: Paul Newman, Robert Redford, Robert Shaw 0 Next » The Apartment (1960) Comedy | Drama | Romance 1 2 3 4 5 6 7 8 9 10 8.4 / 10 X A man tries to rise in his company by letting its executives use his apartment for trysts, but complications and a romance of his own ensue. Director: Billy Wilder Stars: Jack Lemmon, Shirley MacLaine, Fred MacMurray 0 Next » In the Name of the Father (1993) Biography | Drama | History 1 2 3 4 5 6 7 8 9 10 8.1 / 10 X A man's coerced confession to an IRA bombing he did not commit results in the imprisonment of his father as well. An English lawyer fights to free them. Director: Jim Sheridan Stars: Daniel Day-Lewis, Pete Postlethwaite, Alison Crosbie 0 Next » Touch of Evil (1958) Crime | Film-Noir | Thriller 1 2 3 4 5 6 7 8 9 10 8.2 / 10 X A stark, perverse story of murder, kidnapping, and police corruption in a Mexican border town. Director: Orson Welles Stars: Charlton Heston, Orson Welles, Janet Leigh 0 Next » Judgement at Nuremberg (1961) Drama | History | War 1 2 3 4 5 6 7 8 9 10 8.3 / 10 X In 1948, an American court in occupied Germany tries four Nazi judges for war crimes. Director: Stanley Kramer Stars: Spencer Tracy, Burt Lancaster, Richard Widmark 0 Next » 8½ (1963) Certificate: A Drama | Fantasy 1 2 3 4 5 6 7 8 9 10 8.2 / 10 X A harried movie director retreats into his memories and fantasies. Director: Federico Fellini Stars: Marcello Mastroianni, Anouk Aimée, Claudia Cardinale 0 Next » The Hustler (1961) Drama | Sport 1 2 3 4 5 6 7 8 9 10 8.1 / 10 X An up-and-coming pool player plays a long-time champion in a single high-stakes match. Director: Robert Rossen Stars: Paul Newman, Jackie Gleason, Piper Laurie Edit Cast Cast overview, first billed only: Faye Dunaway ... Diana Christensen William Holden ... Max Schumacher Peter Finch ... Howard Beale Robert Duvall ... Frank Hackett Wesley Addy ... Nelson Chaney Ned Beatty ... Arthur Jensen Arthur Burghardt ... Great Ahmed Kahn Bill Burrows ... TV Director John Carpenter ... George Bosch Jordan Charney ... Harry Hunter Kathy Cronkite ... Mary Ann Gifford Ed Crowley ... Joe Donnelly Jerome Dempsey ... Walter C. Amundsen Conchata Ferrell ... Barbara Schlesinger Gene Gross ... Milton K. Steinman See full cast » Edit Storyline In the 1970s, terrorist violence is the stuff of **networks**' nightly news programming and the corporate structure of the UBS Television **Network** is changing. Meanwhile, Howard Beale, the aging UBS news anchor, has lost his once strong ratings share and so the **network** fires him. Beale reacts in an unexpected way. We then see how this affects the fortunes of Beale, his coworkers (Max Schumacher and Diana Christensen), and the **network**. Written by Bruce Janson bruce@cs.su.oz.au> Plot Summary | Add Synopsis Plot Keywords: television | television **network** | television news | rant | ranting | See more » Taglines: "**NETWORK**"... the humanoids, the love story, the trials and tribulations, the savior of television, the attempted suicides, the assassination -- it's ALL coming along with a galaxy of stars you know and love! See more » Genres: Drama Certificate: 15 | See all certifications » Parents Guide: View content advisory » Edit Details Country: USA Language: English Release Date: 27 November 1976 (USA) See more » Also Known As: Poder que mata See more » Filming Locations: CFTO-TV Studios, Scarborough, Toronto, Ontario, Canada See more » Box Office Budget: $3,800,000 (estimated) See more » Company Credits Production Co: Metro-Goldwyn-Mayer (MGM) , United Artists See more » Show detailed company contact information on IMDbPro » Technical Specs Runtime: 121 min Sound Mix: Mono Color: Color (Metrocolor) Aspect Ratio: 1.85 : 1 See full technical specs » Edit Did You Know? Trivia The director and the screenwriter claimed that the film was not meant to be a satire but a reflection of what was really happening. See more » Goofs Just after Beale announces his intention to commit suicide on the air, we see a row of TV screens showing how the story is being covered by the other channels. Playing a news anchor, John Gabriel claims that "something happened at one of our sister **networks**..." It should have been referred to as a "competitive" **network** - a "sister" implies the same corporate ownership, something prohibited by the FCC in 1976. See more » Quotes [first lines] Narrator : This story is about Howard Beale, who was the news anchorman on UBS TV. In his time, Howard Beale had been a mandarin of television, the grand old man of news, with a HUT rating of 16 and a 28 audience share. In 1969, however, his fortunes began to decline. He fell to a 22 share. The following year, his wife died, and he was left a childless widower with an 8 rating and a 12 share. He became morose and isolated, began to drink heavily, and on September 22, 1975, he was fired, ... [...] See more » Connections Featured in The 77th Annual Academy Awards (2005) See more » Frequently Asked Questions Q: How does "**Network**" end? Q: Any recommendations for a female character as annoying as Diana Christensen? Q: Is "**Network**" based on a book? See more (Spoiler Alert!) » User Reviews Prescient... 28 August 2005 | by Christopher T. Chase (cchase@onebox.com) (Arlington, VA.) – See all my reviews It is the only word I can come up with to describe this masterfully savage satire, and IMHO, it's the only word that need be used. Once I had seen ALTERED STATES and read the novel, I was hungry to find out more about the late novelist/playwright/screenwriter Paddy Chayefsky, and sought out this movie. It blew me away years ago, but I find it even more stunning now. Not just because of the writing, Sidney Lumet's taut direction or the Oscar-caliber performances by everyone involved, all of which are almost beyond being lauded with superlatives. But what knocks me out is how Chayefsky seemed less to be writing from the power of his imagination, than channeling Our Times Now. As if he was capable of some form of mental time travel; able to look into the Nineties and beyond to see the coming of SURVIVOR, or Maury Povich, Jerry Springer, Bill O'Reilly and Paris Hilton. Even HE probably didn't know how he knew, but he sure as hell felt it and wrote it down for us to marvel over today. Sure, there are political and cultural analogies throughout the picture that are dated. But the core of his vision remains startlingly clear and eerily prophetic. As for Howard Beale, there is not one single "celebrity" who mirrors that character today, but maybe he is a composite of several different personalities with whom we have become all too familiar in the world of "news-fo-tainment." Or maybe he simply hasn't materialized yet. Maybe that is just how far ahead of its time **NETWORK** really was. After all, being "mad as hell" nowadays has so many more layers of meaning than it did nearly thirty years ago... 92 of 125 people found this review helpful. 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	Computer **network** From Wikipedia, the free encyclopedia Jump to: navigation , search **Network** science Theory Graph Complex **network** Contagion Small-world Scale-free Community structure Percolation Evolution Controllability Graph drawing Social capital Link analysis Optimization Reciprocity Closure Homophily Transitivity Preferential attachment Balance theory **Network** effect Social influence **Network** types Informational (computing) Telecommunication Social Biological Artificial neural Interdependent Semantic Random graph Spatial Dependency Flow Graphs Features Clique Component Cut Cycle Data structure Edge Loop Neighborhood Path Vertex Adjacency list / matrix Incidence list / matrix Types Bipartite Complete Directed Hyper Multi Random Weighted Metrics Algorithms Centrality Degree Betweenness Closeness PageRank Motif Clustering Degree distribution Assortativity Distance Modularity Models Random graph Erdős–Rényi Barabási–Albert Watts–Strogatz Exponential random (ERGM) Epidemic Hierarchical Lists Topics Software **Network** scientists Categories Graph theory **Network** theory v t e A computer **network** or data **network** is a telecommunications **network** that allows computers to exchange data . In computer **networks**, **networked** computing devices pass data to each other along data connections. Data is transferred in the form of packets. The connections (**network** links) between nodes are established using either cable media or wireless media . The best-known computer **network** is the Internet . **Network** computer devices that originate, route and terminate the data are called **network** nodes . [1] Nodes can include hosts such as personal computers , phones , servers as well as networking hardware . Two such devices are said to be **networked** together when one device is able to exchange information with the other device, whether or not they have a direct connection to each other. Computer **networks** support applications such as access to the World Wide Web , shared use of application and storage servers , printers , and fax machines, and use of email and instant messaging applications. Computer **networks** differ in the physical media used to transmit their signals, the communications protocols to organize **network** traffic, the **network**'s size, topology and organizational intent. Contents 1 History 2 Properties 3 **Network** packet 4 **Network** topology 4.1 **Network** links 4.1.1 Wired technologies 4.1.2 Wireless technologies 4.1.3 Exotic technologies 4.2 **Network** nodes 4.2.1 **Network** interfaces 4.2.2 Repeaters and hubs 4.2.3 Bridges 4.2.4 Switches 4.2.5 Routers 4.2.6 Modems 4.2.7 Firewalls 4.3 **Network** structure 4.3.1 Common layouts 4.3.2 Overlay **network** 5 Communications protocols 5.1 Ethernet 5.2 Internet Protocol Suite 5.3 SONET/SDH 5.4 Asynchronous Transfer Mode 6 Geographic scale 7 Organizational scope 7.1 Intranets 7.2 Extranet 7.3 Internetwork 7.4 Internet 7.5 Darknet 8 Routing 9 **Network** service 10 **Network** performance 10.1 Quality of service 10.2 **Network** congestion 10.3 **Network** resilience 11 Security 11.1 **Network** security 11.2 **Network** surveillance 11.3 End to end encryption 12 Views of **networks** 13 See also 14 References 15 Further reading 16 External links History [edit] See also: History of the Internet Today, computer **networks** are the core of modern communication. All modern aspects of the public switched telephone **network** (PSTN) are computer-controlled. Telephony increasingly runs over the Internet Protocol, although not necessarily the public Internet. The scope of communication has increased significantly in the past decade. This boom in communications would not have been possible without the progressively advancing computer **network**. Computer **networks**, and the technologies that make communication between **networked** computers possible, continue to drive computer hardware, software,

and peripherals industries. The expansion of related industries is mirrored by growth in the numbers and types of people using **networks**, from the researcher to the home user. The following is a chronology of significant computer **network** developments: In the late 1950s, early **networks** of communicating computers included the military radar system Semi-Automatic Ground Environment (SAGE). In 1960, the commercial airline reservation system semi-automatic **business** research environment (SABRE) went online with two connected mainframes. In 1962, J.C.R. Licklider developed a working group he called the " Intergalactic Computer **Network** ", a precursor to the ARPANET , at the Advanced Research Projects Agency (ARPA). In 1964, researchers at Dartmouth developed the Dartmouth Time Sharing System for distributed users of large computer systems. The same year, at Massachusetts Institute of Technology , a research group supported by General Electric and Bell Labs used a computer to route and manage telephone connections. Throughout the 1960s, Leonard Kleinrock , Paul Baran , and Donald Davies independently developed **network** systems that used packets to transfer information between computers over a **network**. In 1965, Thomas Marill and Lawrence G. Roberts created the first wide area **network** (WAN). This was an immediate precursor to the ARPANET , of which Roberts became program manager. Also in 1965, the first widely used telephone switch that implemented true computer control was introduced by Western Electric . In 1969, the University of California at Los Angeles , the Stanford Research Institute , the University of California at Santa Barbara , and the University of Utah were connected as the beginning of the ARPANET **network** using 50 kbit/s circuits. [2] In 1972, commercial services using X.25 were deployed, and later used as an underlying infrastructure for expanding TCP/IP **networks**. In 1973, Robert Metcalfe wrote a formal memo at Xerox PARC describing Ethernet , a networking system that was based on the Aloha **network** , developed in the 1960s by Norman Abramson and colleagues at the University of Hawaii . In July 1976, Robert Metcalfe and David Boggs published their paper "Ethernet: Distributed Packet Switching for Local Computer **Networks**" [3] and collaborated on several patents received in 1977 and 1978. In 1979, Robert Metcalfe pursued making Ethernet an open standard. [4] In 1976, John Murphy of Datapoint Corporation created ARCNET , a token-passing **network** first used to share storage devices. In 1995, the transmission speed capacity for Ethernet was increased from 10 Mbit/s to 100 Mbit/s. By 1998, Ethernet supported transmission speeds of a Gigabit. The ability of Ethernet to scale easily (such as quickly adapting to support new fiber optic cable speeds) is a contributing factor to its continued use today. [4] Properties [edit] Computer networking may be considered a branch of electrical engineering , telecommunications , computer science , information technology or computer engineering , since it relies upon the theoretical and practical application of the related disciplines. A computer **network** facilitates interpersonal communications allowing people to communicate efficiently and easily via email, instant messaging, chat rooms, telephone, video telephone calls, and video conferencing. Providing access to information on shared storage devices is an important feature of many **networks**. A **network** allows sharing of files, data, and other types of information giving authorized users the ability to access information stored on other computers on the **network**. A **network** allows sharing of **network** and computing resources. Users may access and use resources provided by devices on the **network**, such as printing a document on a shared **network** printer. Distributed computing uses computing resources across a **network** to accomplish tasks. A computer **network** may be used by computer Crackers to deploy computer viruses or computer worms on devices connected to the **network**, or to prevent these devices from accessing the **network** (denial of service). A complex computer **network** may be difficult to set up. It may be costly to set up an effective computer **network** in a large organization. **Network** packet [edit] Main article: **Network** packet Most information in computer **networks** is carried in packets . A **network** packet is a formatted unit of data (a list of bits or bytes) carried by a packet-switched **network** . Computer communications links that do not support packets, such as traditional point-to-point telecommunications links , simply transmit data as a bit stream . When data is formatted into packets, the bandwidth of the communication medium can be better shared among users than if the **network** were circuit switched . A packet consists of two kinds of data: control information and user data (also known as payload). The control information provides data the **network** needs to deliver the user data, for example: source and destination **network** addresses , error detection codes, and sequencing information. Typically, control information is found in packet headers and trailers , with payload data in between. **Network** topology [edit] Main article: **Network** topology The physical layout of a **network** is usually less important than the topology that connects **network** nodes. Most diagrams that describe a physical **network** are therefore topological, rather than geographic. The symbols on these diagrams usually denote **network** links and **network** nodes. **Network** links [edit] The communication media used to link devices to form a computer **network** include electrical cable (HomePNA , power line communication , G.hn), optical fiber (fiber-optic communication), and radio waves (wireless networking). In the OSI model , these are defined at layers 1 and 2 — the physical layer and the data link layer. A widely adopted family of communication media used in local area **network** (LAN) technology is collectively known as Ethernet . The media and protocol standards that enable communication between **networked** devices over Ethernet are defined by IEEE 802.3 . Ethernet transmit data over both copper and fiber cables. Wireless LAN standards (e.g. those defined by IEEE 802.11) use radio waves , or others use infrared signals as a transmission medium. Power line communication uses a building's power cabling to transmit data. Wired technologies [edit] Fiber optic cables are used to transmit light from one computer/**network** node to another The orders of the following wired technologies are, roughly, from slowest to fastest transmission speed. Twisted pair wire is the most widely used medium for all telecommunication. Twisted-pair cabling consist of copper wires that are twisted into pairs. Ordinary telephone wires consist of two insulated copper wires twisted into pairs. Computer **network** cabling (wired Ethernet as defined by IEEE 802.3) consists of 4 pairs of copper cabling that can be utilized for both voice and data transmission. The use of two wires twisted together helps to reduce crosstalk and electromagnetic induction . The transmission speed ranges from 2 million bits per second to 10 billion bits per second. Twisted pair cabling comes in two forms: unshielded twisted pair (UTP) and shielded twisted-pair (STP). Each form comes in several category ratings, designed for use in various scenarios. Coaxial cable is widely used for cable television systems, office buildings, and other work-sites for local area **networks**. The cables consist of copper or aluminum wire surrounded by an insulating layer (typically a flexible material with a high dielectric constant), which itself is surrounded by a conductive layer. The insulation helps minimize interference and distortion. Transmission speed ranges from 200 million bits per second to more than 500 million bits per second. ITU-T G.hn technology uses existing home wiring (coaxial cable , phone lines and power lines) to create a high-speed (up to 1 Gigabit/s) local area **network**. An optical fiber is a glass fiber. It carries pulses of light that represent data. Some advantages of optical fibers over metal wires are very low transmission loss and immunity from electrical interference. Optical fibers can simultaneously carry multiple wavelengths of light, which greatly increases the rate that data can be sent, and helps enable data rates of up to trillions of bits per second. Optic fibers can be used for long runs of cable carrying very

high data rates, and are used for undersea cables to interconnect continents. Price is a main factor distinguishing wired- and wireless-technology options in a **business**. Wireless options command a price premium that can make purchasing wired computers, printers and other devices a financial benefit. Before making the decision to purchase hard-wired technology products, a review of the restrictions and limitations of the selections is necessary. **Business** and employee needs may override any cost considerations. [5] Wireless technologies [edit] Computers are very often connected to **networks** using wireless links Main article: Wireless **network** Terrestrial microwave – Terrestrial microwave communication uses Earth-based transmitters and receivers resembling satellite dishes. Terrestrial microwaves are in the low-gigahertz range, which limits all communications to line-of-sight. Relay stations are spaced approximately 48 km (30 mi) apart. Communications satellites – Satellites communicate via microwave radio waves, which are not deflected by the Earth's atmosphere. The satellites are stationed in space, typically in geosynchronous orbit 35,400 km (22,000 mi) above the equator. These Earth-orbiting systems are capable of receiving and relaying voice, data, and TV signals. Cellular and PCS systems use several radio communications technologies. The systems divide the region covered into multiple geographic areas. Each area has a low-power transmitter or radio relay antenna device to relay calls from one area to the next area. Radio and spread spectrum technologies – Wireless local area **networks** use a high-frequency radio technology similar to digital cellular and a low-frequency radio technology. Wireless LANs use spread spectrum technology to enable communication between multiple devices in a limited area. IEEE 802.11 defines a common flavor of open-standards wireless radio-wave technology known as Wifi . Free-space optical communication uses visible or invisible light for communications. In most cases, line-of-sight propagation is used, which limits the physical positioning of communicating devices. Exotic technologies [edit] There have been various attempts at transporting data over exotic media: IP over Avian Carriers was a humorous April fool's Request for Comments , issued as RFC 1149 . It was implemented in real life in 2001. [6] Extending the Internet to interplanetary dimensions via radio waves. [7] Both cases have a large round-trip delay time , which gives slow two-way communication, but doesn't prevent sending large amounts of information. **Network** nodes [edit] Main article: Node (networking) Apart from the physical communications media described above, **networks** comprise additional basic system building blocks, such as **network** interface controller (NICs), repeaters , hubs , bridges , switches , routers , modems , and firewalls . **Network** interfaces [edit] An ATM **network** interface in the form of an accessory card. A lot of **network** interfaces are built-in. A **network** interface controller (NIC) is computer hardware that provides a computer with the ability to access the transmission media, and has the ability to process low-level **network** information. For example the NIC may have a connector for accepting a cable, or an aerial for wireless transmission and reception, and the associated circuitry. The NIC responds to traffic addressed to a **network** address for either the NIC or the computer as a whole. In Ethernet **networks**, each **network** interface controller has a unique Media Access Control (MAC) address—usually stored in the controller's permanent memory. To avoid address conflicts between **network** devices, the Institute of Electrical and Electronics Engineers (IEEE) maintains and administers MAC address uniqueness. The size of an Ethernet MAC address is six octets . The three most significant octets are reserved to identify NIC manufacturers. These manufacturers, using only their assigned prefixes, uniquely assign the three least-significant octets of every Ethernet interface they produce. Repeaters and hubs [edit] A repeater is an electronic device that receives a **network** signal , cleans it of unnecessary noise, and regenerates it. The signal is retransmitted at a higher power level, or to the other side of an obstruction, so that the signal can cover longer distances without degradation. In most twisted pair Ethernet configurations, repeaters are required for cable that runs longer than 100 meters. With fiber optics, repeaters can be tens or even hundreds of kilometers apart. A repeater with multiple ports is known as a hub . Repeaters work on the physical layer of the OSI model. Repeaters require a small amount of time to regenerate the signal. This can cause a propagation delay that affects **network** performance. As a result, many **network** architectures limit the number of repeaters that can be used in a row, e.g., the Ethernet 5-4-3 rule . Hubs have been mostly obsoleted by modern switches; but repeaters are used for long distance links, notably undersea cabling. Bridges [edit] A **network** bridge connects and filters traffic between two **network** segments at the data link layer (layer 2) of the OSI model to form a single **network** . This breaks the **network**'s collision domain but maintains a unified broadcast domain. **Network** segmentation breaks down a large, congested **network** into an aggregation of smaller, more efficient **networks**. Bridges come in three basic types: Local bridges: Directly connect LANs Remote bridges: Can be used to create a wide area **network** (WAN) link between LANs. Remote bridges, where the connecting link is slower than the end **networks**, largely have been replaced with routers. Wireless bridges: Can be used to join LANs or connect remote devices to LANs. Switches [edit] A **network** switch is a device that forwards and filters OSI layer 2 datagrams between ports based on the MAC addresses in the packets. [8] A switch is distinct from a hub in that it only forwards the frames to the physical ports involved in the communication rather than all ports connected. It can be thought of as a multi-port bridge. [9] It learns to associate physical ports to MAC addresses by examining the source addresses of received frames. If an unknown destination is targeted, the switch broadcasts to all ports but the source. Switches normally have numerous ports, facilitating a star topology for devices, and cascading additional switches. Multi-layer switches are capable of routing based on layer 3 addressing or additional logical levels. The term switch is often used loosely to include devices such as routers and bridges, as well as devices that may distribute traffic based on load or based on application content (e.g., a Web URL identifier). Routers [edit] A typical home or small office router showing the ADSL telephone line and Ethernet **network** cable connections A router is an internetworking device that forwards packets between **networks** by processing the routing information included in the packet or datagram (Internet protocol information from layer 3). The routing information is often processed in conjunction with the routing table (or forwarding table). A router uses its routing table to determine where to forward packets. (A destination in a routing table can include a "null" interface, also known as the "black hole" interface because data can go into it, however, no further processing is done for said data.) Modems [edit] Modems (MOdulator-DEModulator) are used to connect **network** nodes via wire not originally designed for digital **network** traffic, or for wireless. To do this one or more frequencies are modulated by the digital signal to produce an analog signal that can be tailored to give the required properties for transmission. Modems are commonly used for telephone lines, using a Digital Subscriber Line technology. Firewalls [edit] A firewall is a **network** device for controlling **network** security and access rules. Firewalls are typically configured to reject access requests from unrecognized sources while allowing actions from recognized ones. The vital role firewalls play in **network** security grows in parallel with the constant increase in cyber attacks . **Network** structure [edit] **Network** topology is the layout or organizational hierarchy of interconnected nodes of a computer **network**. Different **network** topologies can affect throughput, but reliability is often more critical. With many technologies, such as bus **networks**, a single failure can cause the **network** to fail entirely. In general the more interconnections there are, the more robust the **network** is; but the more expensive it is to

install. Common layouts [edit] Common **network** topologies Common layouts are: A bus **network** : all nodes are connected to a common medium along this medium. This was the layout used in the original Ethernet , called 10BASE5 and 10BASE2 . A star **network** : all nodes are connected to a special central node. This is the typical layout found in a Wireless LAN , where each wireless client connects to the central Wireless access point . A ring **network** : each node is connected to its left and right neighbour node, such that all nodes are connected and that each node can reach each other node by traversing nodes left- or rightwards. The Fiber Distributed Data Interface (FDDI) made use of such a topology. A mesh **network** : each node is connected to an arbitrary number of neighbours in such a way that there is at least one traversal from any node to any other. A fully connected **network** : each node is connected to every other node in the **network**. A tree **network** : nodes are arranged hierarchically. Note that the physical layout of the nodes in a **network** may not necessarily reflect the **network** topology. As an example, with FDDI , the **network** topology is a ring (actually two counter-rotating rings), but the physical topology is often a star, because all neighboring connections can be routed via a central physical location. Overlay **network** [edit] A sample overlay **network** An overlay **network** is a virtual computer **network** that is built on top of another **network**. Nodes in the overlay **network** are connected by virtual or logical links. Each link corresponds to a path, perhaps through many physical links, in the underlying **network**. The topology of the overlay **network** may (and often does) differ from that of the underlying one. For example, many peer-to-peer **networks** are overlay **networks**. They are organized as nodes of a virtual system of links that run on top of the Internet. [10] Overlay **networks** have been around since the invention of networking when computer systems were connected over telephone lines using modems , before any data **network** existed. The most striking example of an overlay **network** is the Internet itself. The Internet itself was initially built as an overlay on the telephone **network** . [10] Even today, at the **network** layer, each node can reach any other by a direct connection to the desired IP address, thereby creating a fully connected **network**. The underlying **network**, however, is composed of a mesh-like interconnect of sub-**networks** of varying topologies (and technologies). Address resolution and routing are the means that allow mapping of a fully connected IP overlay **network** to its underlying **network**. Another example of an overlay **network** is a distributed hash table , which maps keys to nodes in the **network**. In this case, the underlying **network** is an IP **network**, and the overlay **network** is a table (actually a map) indexed by keys. Overlay **networks** have also been proposed as a way to improve Internet routing, such as through quality of service guarantees to achieve higher-quality streaming media . Previous proposals such as IntServ , DiffServ , and IP Multicast have not seen wide acceptance largely because they require modification of all routers in the **network**. [citation needed] On the other hand, an overlay **network** can be incrementally deployed on end-hosts running the overlay protocol software, without cooperation from Internet service providers . The overlay **network** has no control over how packets are routed in the underlying **network** between two overlay nodes, but it can control, for example, the sequence of overlay nodes that a message traverses before it reaches its destination. For example, Akamai Technologies manages an overlay **network** that provides reliable, efficient content delivery (a kind of multicast). Academic research includes end system multicast, [11] resilient routing and quality of service studies, among others. Communications protocols [edit] The TCP/IP model or Internet layering scheme and its relation to common protocols often layered on top of it. A communications protocol is a set of rules for exchanging information over **network** links. In a protocol stack (also see the OSI model), each protocol leverages the services of the protocol below it. An important example of a protocol stack is HTTP running over TCP over IP over IEEE 802.11 . (TCP and IP are members of the Internet Protocol Suite . IEEE 802.11 is a member of the Ethernet protocol suite.) This stack is used between the wireless router and the home user's personal computer when the user is surfing the web. Whilst the use of protocol layering is today ubiquitous across the field of computer networking, it has been historically criticized by many researchers [12] for two principle reasons. Firstly, abstracting the protocol stack in this way may cause a higher layer to duplicate functionality of a lower layer, a prime example being error recovery on both a per-link basis and an end-to-end basis. [13] Secondly, it is common that a protocol implementation at one layer may require data, state or addressing information that is only present at another layer, thus defeating the point of separating the layers in the first place. For example, TCP uses the ECN field in the IPv4 header as an indication of congestion; IP is a **network** layer protocol whereas TCP is a transport layer protocol. Communication protocols have various characteristics. They may be connection-oriented or connectionless , they may use circuit mode or packet switching , and they may use hierarchical addressing or flat addressing. There are many communication protocols, a few of which are described below. Ethernet [edit] Ethernet is a family of protocols used in LANs, described by a set of standards together called IEEE 802 published by the Institute of Electrical and Electronics Engineers . It has a flat addressing scheme. It operates mostly at levels 1 and 2 of the OSI model . For home users today, the most well-known member of this protocol family is IEEE 802.11 , otherwise known as Wireless LAN (WLAN). The complete IEEE 802 protocol suite provides a diverse set of networking capabilities. For example, MAC bridging (IEEE 802.1D) deals with the routing of Ethernet packets using a Spanning Tree Protocol , IEEE 802.1Q describes VLANs , and IEEE 802.1X defines a port-based **Network** Access Control protocol, which forms the basis for the authentication mechanisms used in VLANs (but it is also found in WLANs) – it is what the home user sees when the user has to enter a "wireless access key". Internet Protocol Suite [edit] The Internet Protocol Suite , also called TCP/IP, is the foundation of all modern networking. It offers connection-less as well as connection-oriented services over an inherently unreliable **network** traversed by data-gram transmission at the Internet protocol (IP) level. At its core, the protocol suite defines the addressing, identification, and routing specifications for Internet Protocol Version 4 (IPv4) and for IPv6, the next generation of the protocol with a much enlarged addressing capability. SONET/SDH [edit] Synchronous optical networking (SONET) and Synchronous Digital Hierarchy (SDH) are standardized multiplexing protocols that transfer multiple digital bit streams over optical fiber using lasers. They were originally designed to transport circuit mode communications from a variety of different sources, primarily to support real-time, uncompressed, circuit-switched voice encoded in PCM (Pulse-Code Modulation) format. However, due to its protocol neutrality and transport-oriented features, SONET/SDH also was the obvious choice for transporting Asynchronous Transfer Mode (ATM) frames. Asynchronous Transfer Mode [edit] Asynchronous Transfer Mode (ATM) is a switching technique for telecommunication **networks**. It uses asynchronous time-division multiplexing and encodes data into small, fixed-sized cells . This differs from other protocols such as the Internet Protocol Suite or Ethernet that use variable sized packets or frames . ATM has similarity with both circuit and packet switched networking. This makes it a good choice for a **network** that must handle both traditional high-throughput data traffic, and real-time, low-latency content such as voice and video. ATM uses a connection-oriented model in which a virtual circuit must be established between two endpoints before the actual data exchange begins. While the role of ATM is diminishing in favor of next-generation **networks** , it still plays a role in the last mile , which is the connection between an Internet service provider

and the home user. For an interesting write-up of the technologies involved, including the deep stacking of communications protocols used, see. [14] Geographic scale [edit] A **network** can be characterized by its physical capacity or its organizational purpose. Use of the **network**, including user authorization and access rights, differ accordingly. Personal area **network** A personal area **network** (PAN) is a computer **network** used for communication among computer and different information technological devices close to one person. Some examples of devices that are used in a PAN are personal computers, printers, fax machines, telephones, PDAs, scanners, and even video game consoles. A PAN may include wired and wireless devices. The reach of a PAN typically extends to 10 meters. [15] A wired PAN is usually constructed with USB and FireWire connections while technologies such as Bluetooth and infrared communication typically form a wireless PAN. Local area **network** A local area **network** (LAN) is a **network** that connects computers and devices in a limited geographical area such as a home, school, office building, or closely positioned group of buildings. Each computer or device on the **network** is a node . Wired LANs are most likely based on Ethernet technology. Newer standards such as ITU-T G.hn also provide a way to create a wired LAN using existing wiring, such as coaxial cables, telephone lines, and power lines. [16] A LAN is depicted in the accompanying diagram. All interconnected devices use the **network** layer (layer 3) to handle multiple subnets (represented by different colors). Those inside the library have 10/100 Mbit/s Ethernet connections to the user device and a Gigabit Ethernet connection to the central router . They could be called Layer 3 switches , because they only have Ethernet interfaces and support the Internet Protocol . It might be more correct to call them access routers, where the router at the top is a distribution router that connects to the Internet and to the academic **networks'** customer access routers. The defining characteristics of a LAN, in contrast to a wide area **network** (WAN), include higher data transfer rates , limited geographic range, and lack of reliance on leased lines to provide connectivity. Current Ethernet or other IEEE 802.3 LAN technologies operate at data transfer rates up to 10 Gbit/s. The IEEE investigates the standardization of 40 and 100 Gbit/s rates. [17] A LAN can be connected to a WAN using a router . Home area **network** A home area **network** (HAN) is a residential LAN used for communication between digital devices typically deployed in the home, usually a small number of personal computers and accessories, such as printers and mobile computing devices. An important function is the sharing of Internet access, often a broadband service through a cable TV or digital subscriber line (DSL) provider. Storage area **network** A storage area **network** (SAN) is a dedicated **network** that provides access to consolidated, block level data storage. SANs are primarily used to make storage devices, such as disk arrays, tape libraries, and optical jukeboxes, accessible to servers so that the devices appear like locally attached devices to the operating system. A SAN typically has its own **network** of storage devices that are generally not accessible through the local area **network** by other devices. The cost and complexity of SANs dropped in the early 2000s to levels allowing wider adoption across both enterprise and small to medium sized **business** environments. Campus area **network** A campus area **network** (CAN) is made up of an interconnection of LANs within a limited geographical area. The networking equipment (switches, routers) and transmission media (optical fiber, copper plant, Cat5 cabling, etc.) are almost entirely owned by the campus tenant / owner (an enterprise, university, government, etc.). For example, a university campus **network** is likely to link a variety of campus buildings to connect academic colleges or departments, the library, and student residence halls. Backbone **network** A backbone **network** is part of a computer **network** infrastructure that provides a path for the exchange of information between different LANs or sub-**networks**. A backbone can tie together diverse **networks** within the same building, across different buildings, or over a wide area. For example, a large company might implement a backbone **network** to connect departments that are located around the world. The equipment that ties together the departmental **networks** constitutes the **network** backbone. When designing a **network** backbone, **network** performance and **network** congestion are critical factors to take into account. Normally, the backbone **network**'s capacity is greater than that of the individual **networks** connected to it. Another example of a backbone **network** is the Internet backbone , which is the set of wide area **networks** (WANs) and core routers that tie together all **networks** connected to the Internet . Metropolitan area **network** A Metropolitan area **network** (MAN) is a large computer **network** that usually spans a city or a large campus. Wide area **network** A wide area **network** (WAN) is a computer **network** that covers a large geographic area such as a city, country, or spans even intercontinental distances. A WAN uses a communications channel that combines many types of media such as telephone lines, cables, and air waves. A WAN often makes use of transmission facilities provided by common carriers, such as telephone companies. WAN technologies generally function at the lower three layers of the OSI reference model : the physical layer , the data link layer , and the **network** layer . Enterprise private **network** An enterprise private **network** is a **network** that a single organization builds to interconnect its office locations (e.g., production sites, head offices, remote offices, shops) so they can share computer resources. Virtual private **network** A virtual private **network** (VPN) is an overlay **network** in which some of the links between nodes are carried by open connections or virtual circuits in some larger **network** (e.g., the Internet) instead of by physical wires. The data link layer protocols of the virtual **network** are said to be tunneled through the larger **network** when this is the case. One common application is secure communications through the public Internet, but a VPN need not have explicit security features, such as authentication or content encryption. VPNs, for example, can be used to separate the traffic of different user communities over an underlying **network** with strong security features. VPN may have best-effort performance, or may have a defined service level agreement (SLA) between the VPN customer and the VPN service provider. Generally, a VPN has a topology more complex than point-to-point. Global area **network** A global area **network** (GAN) is a **network** used for supporting mobile across an arbitrary number of wireless LANs, satellite coverage areas, etc. The key challenge in mobile communications is handing off user communications from one local coverage area to the next. In IEEE Project 802, this involves a succession of terrestrial wireless LANs . [18] Organizational scope [edit] **Networks** are typically managed by the organizations that own them. Private enterprise **networks** may use a combination of intranets and extranets. They may also provide **network** access to the Internet , which has no single owner and permits virtually unlimited global connectivity. Intranets [edit] An intranet is a set of **networks** that are under the control of a single administrative entity. The intranet uses the IP protocol and IP-based tools such as web browsers and file transfer applications. The administrative entity limits use of the intranet to its authorized users. Most commonly, an intranet is the internal LAN of an organization. A large intranet typically has at least one web server to provide users with organizational information. An intranet is also anything behind the router on a local area **network**. Extranet [edit] An extranet is a **network** that is also under the administrative control of a single organization, but supports a limited connection to a specific external **network**. For example, an organization may provide access to some aspects of its intranet to share data with its **business** partners or customers. These other entities are not necessarily trusted from a security standpoint. **Network** connection to an extranet is often, but not always, implemented via WAN technology. Internetwork [edit] An internetwork is the connection of multiple

en.wikipedia.org/wiki/Computer_network
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computer **networks** via a common routing technology using routers. Internet [edit] Partial map of the Internet based on the January 15, 2005 data found on opte.org . Each line is drawn between two nodes, representing two IP addresses . The length of the lines are indicative of the delay between those two nodes. This graph represents less than 30% of the Class C **networks** reachable. The Internet is the largest example of an internetwork. It is a global system of interconnected governmental, academic, corporate, public, and private computer **networks**. It is based on the networking technologies of the Internet Protocol Suite . It is the successor of the Advanced Research Projects Agency **Network** (ARPANET) developed by DARPA of the United States Department of Defense . The Internet is also the communications backbone underlying the World Wide Web (WWW). Participants in the Internet use a diverse array of methods of several hundred documented, and often standardized, protocols compatible with the Internet Protocol Suite and an addressing system (IP addresses) administered by the Internet Assigned Numbers Authority and address registries . Service providers and large enterprises exchange information about the reachability of their address spaces through the Border Gateway Protocol (BGP), forming a redundant worldwide mesh of transmission paths. Darknet [edit] A Darknet is an overlay **network**, typically running on the internet, that is only accessible through specialized software. A darknet is an anonymizing **network** where connections are made only between trusted peers — sometimes called "friends" (F2F) [19] — using non-standard protocols and ports . Darknets are distinct from other distributed peer-to-peer **networks** as sharing is anonymous (that is, IP addresses are not publicly shared), and therefore users can communicate with little fear of governmental or corporate interference. [20] Routing [edit] Routing calculates good paths through a **network** for information to take. For example from node 1 to node 6 the best routes are likely to be 1-8-7-6 or 1-8-10-6, as this has the thickest routes. Routing is the process of selecting **network** paths to carry **network** traffic. Routing is performed for many kinds of **networks**, including circuit switching **networks** and packet switched **networks** . In packet switched **networks**, routing directs packet forwarding (the transit of logically addressed **network** packets from their source toward their ultimate destination) through intermediate nodes . Intermediate nodes are typically **network** hardware devices such as routers , bridges , gateways , firewalls , or switches . General-purpose computers can also forward packets and perform routing, though they are not specialized hardware and may suffer from limited performance. The routing process usually directs forwarding on the basis of routing tables , which maintain a record of the routes to various **network** destinations. Thus, constructing routing tables, which are held in the router's memory , is very important for efficient routing. Most routing algorithms use only one **network** path at a time. Multipath routing techniques enable the use of multiple alternative paths. There are usually multiple routes that can be taken, and to choose between them, different elements can be considered to decide which routes get installed into the routing table, such as (sorted by priority): Prefix-Length : where longer subnet masks are preferred (independent if it is within a routing protocol or over different routing protocol) Metric : where a lower metric/cost is preferred (only valid within one and the same routing protocol) Administrative distance : where a lower distance is preferred (only valid between different routing protocols) Routing, in a more narrow sense of the term, is often contrasted with bridging in its assumption that **network** addresses are structured and that similar addresses imply proximity within the **network**. Structured addresses allow a single routing table entry to represent the route to a group of devices. In large **networks**, structured addressing (routing, in the narrow sense) outperforms unstructured addressing (bridging). Routing has become the dominant form of addressing on the Internet. Bridging is still widely used within localized environments. **Network** service [edit] **Network** services are applications hosted by servers on a computer **network**, to provide some functionality for members or users of the **network**, or to help the **network** itself to operate. The World Wide Web , E-mail , [21] printing and **network** file sharing are examples of well-known **network** services. **Network** services such as DNS (Domain Name System) give names for IP and MAC addresses (people remember names like “nm.lan” better than numbers like “210.121.67.18”), [22] and DHCP to ensure that the equipment on the **network** has a valid IP address. [23] Services are usually based on a service protocol that defines the format and sequencing of messages between clients and servers of that **network** service. **Network** performance [edit] Quality of service [edit] Depending on the installation requirements, **network** performance is usually measured by the quality of service of a telecommunications product. The parameters that affect this typically can include throughput , jitter , bit error rate and latency . The following list gives examples of **network** performance measures for a circuit-switched **network** and one type of packet-switched **network** , viz. ATM: Circuit-switched **networks**: In circuit switched **networks**, **network** performance is synonymous with the grade of service . The number of rejected calls is a measure of how well the **network** is performing under heavy traffic loads. [24] Other types of performance measures can include the level of noise and echo. ATM: In an Asynchronous Transfer Mode (ATM) **network**, performance can be measured by line rate, quality of service (QoS), data throughput, connect time, stability, technology, modulation technique and modem enhancements. [25] There are many ways to measure the performance of a **network**, as each **network** is different in nature and design. Performance can also be modelled instead of measured. For example, state transition diagrams are often used to model queuing performance in a circuit-switched **network**. The **network** planner uses these diagrams to analyze how the **network** performs in each state, ensuring that the **network** is optimally designed. [26] **Network** congestion [edit] **Network** congestion occurs when a link or node is carrying so much data that its quality of service deteriorates. Typical effects include queueing delay , packet loss or the blocking of new connections. A consequence of these latter two is that incremental increases in offered load lead either only to small increase in **network** throughput , or to an actual reduction in **network** throughput. **Network** protocols that use aggressive retransmissions to compensate for packet loss tend to keep systems in a state of **network** congestion—even after the initial load is reduced to a level that would not normally induce **network** congestion. Thus, **networks** using these protocols can exhibit two stable states under the same level of load. The stable state with low throughput is known as congestive collapse . Modern **networks** use congestion control and congestion avoidance techniques to try to avoid congestion collapse. These include: exponential backoff in protocols such as 802.11 's CSMA/CA and the original Ethernet , window reduction in TCP , and fair queueing in devices such as routers . Another method to avoid the negative effects of **network** congestion is implementing priority schemes, so that some packets are transmitted with higher priority than others. Priority schemes do not solve **network** congestion by themselves, but they help to alleviate the effects of congestion for some services. An example of this is 802.1p . A third method to avoid **network** congestion is the explicit allocation of **network** resources to specific flows. One example of this is the use of Contention-Free Transmission Opportunities (CFTXOPs) in the ITU-T G.hn standard, which provides high-speed (up to 1 Gbit/s) Local area networking over existing home wires (power lines, phone lines and coaxial cables). For the Internet RFC 2914 addresses the subject of congestion control in detail. **Network** resilience [edit] **Network** resilience is "the ability to provide and maintain an acceptable level of service in the face of faults and challenges to normal operation.” [27] Security [edit

] **Network** security [edit] **Network** security consists of provisions and policies adopted by the **network** administrator to prevent and monitor unauthorized access, misuse, modification, or denial of the computer **network** and its **network**-accessible resources. [28] **Network** security is the authorization of access to data in a **network**, which is controlled by the **network** administrator. Users are assigned an ID and password that allows them access to information and programs within their authority. **Network** security is used on a variety of computer **networks**, both public and private, to secure daily transactions and communications among **businesses**, government agencies and individuals. **Network** surveillance [edit] **Network** surveillance is the monitoring of data being transferred over computer **networks** such as the Internet . The monitoring is often done surreptitiously and may be done by or at the behest of governments, by corporations, criminal organizations, or individuals. It may or may not be legal and may or may not require authorization from a court or other independent agency. Computer and **network** surveillance programs are widespread today, and almost all Internet traffic is or could potentially be monitored for clues to illegal activity. Surveillance is very useful to governments and law enforcement to maintain social control , recognize and monitor threats, and prevent/investigate criminal activity. With the advent of programs such as the Total Information Awareness program, technologies such as high speed surveillance computers and biometrics software, and laws such as the Communications Assistance For Law Enforcement Act , governments now possess an unprecedented ability to monitor the activities of citizens. [29] However, many civil rights and privacy groups—such as Reporters Without Borders , the Electronic Frontier Foundation , and the American Civil Liberties Union —have expressed concern that increasing surveillance of citizens may lead to a mass surveillance society, with limited political and personal freedoms. Fears such as this have led to numerous lawsuits such as Hepting v. AT&T . [29] [30] The hacktivist group Anonymous has hacked into government websites in protest of what it considers "draconian surveillance". [31] [32] End to end encryption [edit] End-to-end encryption (E2EE) is a digital communications paradigm of uninterrupted protection of data traveling between two communicating parties. It involves the originating party encrypting data so only the intended recipient can decrypt it, with no dependency on third parties. End-to-end encryption prevents intermediaries, such as Internet providers or application service providers , from discovering or tampering with communications. End-to-end encryption generally protects both confidentiality and integrity . Examples of end-to-end encryption include PGP for email , OTR for instant messaging , ZRTP for telephony , and TETRA for radio. Typical server -based communications systems do not include end-to-end encryption. These systems can only guarantee protection of communications between clients and servers , not between the communicating parties themselves. Examples of non-E2EE systems are Google Talk , Yahoo Messenger , Facebook , and Dropbox . Some such systems, for example LavaBit and SecretInk, have even described themselves as offering "end-to-end" encryption when they do not. Some systems that normally offer end-to-end encryption have turned out to contain a back door that subverts negotiation of the encryption key between the communicating parties, for example Skype . The end-to-end encryption paradigm does not directly address risks at the communications endpoints themselves, such as the technical exploitation of clients , poor quality random number generators , or key escrow . E2EE also does not address traffic analysis , which relates to things such as the identities of the end points and the times and quantities of messages that are sent. Views of **networks** [edit] Users and **network** administrators typically have different views of their **networks**. Users can share printers and some servers from a workgroup, which usually means they are in the same geographic location and are on the same LAN, whereas a **Network** Administrator is responsible to keep that **network** up and running. A community of interest has less of a connection of being in a local area, and should be thought of as a set of arbitrarily located users who share a set of servers, and possibly also communicate via peer-to-peer technologies. **Network** administrators can see **networks** from both physical and logical perspectives. The physical perspective involves geographic locations, physical cabling, and the **network** elements (e.g., routers , bridges and application layer gateways) that interconnect the physical media. Logical **networks**, called, in the TCP/IP architecture, subnets , map onto one or more physical media. For example, a common practice in a campus of buildings is to make a set of LAN cables in each building appear to be a common subnet, using virtual LAN (VLAN) technology. Both users and administrators are aware, to varying extents, of the trust and scope characteristics of a **network**. Again using TCP/IP architectural terminology, an intranet is a community of interest under private administration usually by an enterprise, and is only accessible by authorized users (e.g. employees). [33] Intranets do not have to be connected to the Internet, but generally have a limited connection. An extranet is an extension of an intranet that allows secure communications to users outside of the intranet (e.g. **business** partners, customers). [33] Unofficially, the Internet is the set of users, enterprises, and content providers that are interconnected by Internet Service Providers (ISP). From an engineering viewpoint, the Internet is the set of subnets, and aggregates of subnets, which share the registered IP address space and exchange information about the reachability of those IP addresses using the Border Gateway Protocol . Typically, the human-readable names of servers are translated to IP addresses, transparently to users, via the directory function of the Domain Name System (DNS). Over the Internet, there can be **business**-to-**business** (B2B) , **business**-to-consumer (B2C) and consumer-to-consumer (C2C) communications. When money or sensitive information is exchanged, the communications are apt to be protected by some form of communications security mechanism. Intranets and extranets can be securely superimposed onto the Internet, without any access by general Internet users and administrators, using secure Virtual Private **Network** (VPN) technology. See also [edit] Comparison of **network** diagram software Cyberspace History of the Internet **Network** simulation Virtual reality Virtual world References [edit] ^ Computer **network** definition , retrieved 2011-11-12 ^ Chris Sutton. "Internet Began 35 Years Ago at UCLA with First Message Ever Sent Between Two Computers" . UCLA . 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Retrieved March 13, 2009 . ^ "Anonymous hacks UK government sites over 'draconian surveillance' " , Emil Protalinski, ZDNet, 7 April 2012, retrieved 12 March 2013 ^ Hacktivists in the frontline battle for the internet retrieved 17 June 2012 ^ a b RFC 2547 This article incorporates public domain material from the General Services Administration document "Federal Standard 1037C" . Further reading [edit] Shelly, Gary, et al. "Discovering Computers" 2003 Edition Wendell Odom, Rus Healy, Denise Donohue. (2010) CCIE Routing and Switching. Indianapolis, IN: Cisco Press Kurose James F and Keith W. Ross : Computer Networking: A Top-Down Approach Featuring the Internet, Pearson Education 2005. William Stallings , Computer Networking with Internet Protocols and Technology , Pearson Education 2004. Important publications in computer **networks** **Network** Communication Architecture and Protocols: OSI **Network** Architecture 7 Layers Model External links [edit] Networking at DMOZ IEEE Ethernet manufacturer information v t e Telecommunications History Beacon Broadcasting Communications satellite Computer **network** Drums Electrical telegraph Fax Heliographs Hydraulic telegraph Internet Mass media Mobile phone Optical telecommunication Optical telegraphy Photophone Prepaid mobile phone Radio Radiotelephone Satellite communications Smoke signals Telecommunications history Telegraphy Telephone The Telephone Cases Television Timeline of communication technology Undersea telegraph line Videoconferencing Videophone Videotelephony Pioneers Edwin Howard Armstrong John Logie Baird Alexander Graham Bell Tim Berners-Lee Jagadish Chandra Bose Vint Cerf Claude Chappe Lee de Forest Philo Farnsworth Reginald Fessenden Elisha Gray Guglielmo Marconi Alexander Stepanovich Popov Johann Philipp Reis Nikola Tesla Camille Papin Tissot Alfred Vail Charles Wheatstone Vladimir K. Zworykin Transmission media Coaxial cable Free-space optical Optical fiber Radio waves Telephone lines Terrestrial microwave **Network** topology and switching Links Nodes Terminal node **Network** switching (circuit packet) Telephone exchange Multiplexing Space-division Frequency-division Time-division Polarization-division Orbital angular-momentum Code-division **Networks** ARPANET BITNET Computer Ethernet FidoNet Internet ISDN LAN Mobile NGN Public Switched Telephone Radio Telecommunications equipment Television Telex WAN Wireless World Wide Web By continent v t e Telecommunications in Africa Sovereign states Algeria Angola Benin Botswana Burkina Faso Burundi Cameroon Cape Verde Central African Republic Chad Comoros Democratic Republic of the Congo Republic of the Congo Djibouti Egypt Equatorial Guinea Eritrea Ethiopia Gabon The Gambia Ghana Guinea Guinea-Bissau Ivory Coast (Côte d'Ivoire) Kenya Lesotho Liberia Libya Madagascar Malawi Mali Mauritania Mauritius Morocco Mozambique Namibia Niger Nigeria Rwanda São Tomé and Príncipe Senegal Seychelles Sierra Leone Somalia South Africa South Sudan Sudan Swaziland Tanzania Togo Tunisia Uganda Zambia Zimbabwe States with limited recognition Sahrawi Arab Democratic Republic Somaliland Dependencies and other territories Canary Islands / Ceuta / Melilla / Plazas de soberanía (Spain) Madeira (Portugal) Mayotte / Réunion (France) Saint Helena / Ascension Island / Tristan da Cunha (United Kingdom) Western Sahara v t e Telecommunications in Asia Sovereign states Afghanistan Armenia Azerbaijan Bahrain Bangladesh Bhutan Brunei Burma (Myanmar) Cambodia China Cyprus East Timor (Timor-Leste) Egypt Georgia India Indonesia Iran Iraq Israel Japan Jordan Kazakhstan North Korea South Korea Kuwait Kyrgyzstan Laos Lebanon Malaysia Maldives Mongolia Nepal Oman Pakistan Philippines Qatar Russia Saudi Arabia Singapore Sri Lanka Syria Tajikistan Thailand Turkey Turkmenistan United Arab Emirates Uzbekistan Vietnam Yemen States with limited recognition Abkhazia Nagorno-Karabakh Northern Cyprus Palestine South Ossetia Taiwan Dependencies and other territories British Indian Ocean Territory Christmas Island Cocos (Keeling) Islands Hong Kong Macau v t e Telecommunications in Europe Sovereign states Albania Andorra Armenia Austria Azerbaijan Belarus Belgium Bosnia and Herzegovina Bulgaria Croatia Cyprus Czech Republic Denmark Estonia Finland France Georgia Germany Greece Hungary Iceland Ireland Italy Kazakhstan Latvia Liechtenstein Lithuania Luxembourg Macedonia Malta Moldova Monaco Montenegro Netherlands Norway Poland Portugal Romania Russia San Marino Serbia Slovakia Slovenia Spain Sweden Switzerland Turkey Ukraine United Kingdom States with limited recognition Abkhazia Kosovo Nagorno-Karabakh Northern Cyprus South Ossetia Transnistria Dependencies and other territories Åland Faroe Islands Gibraltar Guernsey Jersey Isle of Man Svalbard Other entities European Union v t e Telecommunications in North America Sovereign states Antigua and Barbuda Bahamas Barbados Belize Canada Costa Rica Cuba Dominica Dominican Republic El Salvador Grenada Guatemala Haiti Honduras Jamaica Mexico Nicaragua Panama Saint Kitts and Nevis Saint Lucia Saint Vincent and the Grenadines Trinidad and Tobago United States Dependencies and other territories Anguilla Aruba Bermuda Bonaire British Virgin Islands Cayman Islands Curaçao Greenland Guadeloupe Martinique Montserrat Navassa Island Puerto Rico Saint Barthélemy Saint Martin Saint Pierre and Miquelon Saba Sint Eustatius Sint Maarten Turks and Caicos Islands United States Virgin Islands v t e Telecommunications in Oceania Sovereign states Australia East Timor Fiji Kiribati Marshall Islands Federated States of Micronesia Nauru New Zealand Palau Papua New Guinea Samoa Solomon Islands Tonga Tuvalu Vanuatu Associated states of New Zealand Cook Islands Niue Dependencies and other territories American Samoa Christmas Island Cocos (Keeling) Islands Easter Island French Polynesia Guam Hawaii New Caledonia Norfolk Island Northern Mariana Islands Pitcairn Islands Tokelau Wallis and Futuna v t e Telecommunications in South America Sovereign states Argentina Bolivia Brazil Chile Colombia Ecuador Guyana Paraguay Peru Suriname Uruguay Venezuela Dependencies and other territories Falkland Islands French Guiana South Georgia and the South Sandwich Islands Telecommunications · Telecommunication · Telecommunication v t e Operating system General Advocacy Comparison History Hobbyist development List Timeline Usage share Kernel Architectures Exokernel Hybrid Microkernel Monolithic Components Device

driver Loadable kernel module Microkernel User space Process management Concepts Context switch Interrupt IPC Process Process control block Thread Time-sharing Scheduling algorithms Computer multitasking Fixed-priority preemptive Multilevel feedback queue Preemptive Round-robin Shortest job next Memory management and resource protection Bus error General protection fault Memory protection Paging Security rings Segmentation fault Virtual memory Storage access and file systems Boot loader Defragmentation Device file File attribute Inode Journal Partition Virtual file system Virtual tape library List AmigaOS Android BeOS BSD DOS GNU Hurd iOS Linux Mac OS MorphOS OpenVMS OS/2 OSv QNX ReactOS RISC OS Solaris TPF Unix VM/CMS Windows z/OS Miscellaneous concepts API Computer **network** HAL Live CD Live USB OS shell CLI GUI TUI VUI PXE v t e Technology Outline of technology Outline of applied science Fields Agriculture Agricultural engineering Aquaculture Fisheries science Food chemistry Food engineering Food microbiology Food technology GURT ICT Nutrition Biomedical Bioinformatics Biological engineering Biomechatronics Biomedical engineering Biotechnology Cheminformatics Genetic engineering Healthcare science Medical research Medical technology Nanomedicine Neuroscience Neurotechnology Pharmacology Reproductive technology Tissue engineering Buildings and Construction Acoustical engineering Architectural engineering Building services engineering Civil engineering Construction engineering Domestic technology Facade engineering Fire protection engineering Safety engineering Sanitary engineering Structural engineering Educational Educational software Digital technologies in education ICT in education Impact Multimedia learning Virtual campus Virtual education Energy Nuclear engineering Nuclear technology Petroleum engineering Soft energy technology Environmental Clean technology Clean coal technology Ecological design Ecological engineering Ecotechnology Environmental engineering Environmental engineering science Green building Green nanotechnology Landscape engineering Renewable energy Sustainable design Sustainable engineering Industrial Automation **Business** informatics Engineering management Enterprise engineering Financial engineering Industrial biotechnology Industrial engineering Metallurgy Mining engineering Productivity improving technologies Research and development IT and communications Artificial intelligence Broadcast engineering Computer engineering Computer science Information technology Music technology Ontology engineering RF engineering Software engineering Telecommunications engineering Visual technology Web engineering Military Army engineering maintenance Electronic warfare Military communications Military engineering Stealth technology Transport Aerospace engineering Automotive engineering Naval architecture Space technology Traffic engineering Transport engineering Other applied sciences Cryogenics Electro-optics Electronics Engineering geology Engineering physics Hydraulics Materials science Microfabrication Nanoengineering Other engineering fields Audio Biochemical Ceramic Chemical Polymer Control Electrical Electronic Entertainment Geotechnical Hydraulic Mechanical Mechatronics Optical Protein Quantum Robotics Animatronics Systems Components Infrastructure Invention Timeline Knowledge Machine Skill Craft Tool Gadget Scales Femtotechnology Picotechnology Nanotechnology Microtechnology Macro-engineering Megascale engineering History Prehistoric technology Neolithic Revolution Ancient technology Medieval technology Renaissance technology Industrial Revolution Second Jet Age Digital Revolution Information Age Theories and concepts Appropriate technology Critique of technology Diffusion of innovations Disruptive innovation Dual-use technology Ephemeralization Ethics of technology High tech Hype cycle Low-technology Mature technology Philosophy of technology Strategy of Technology Technicism Techno-progressivism Technocapitalism Technocentrism Technocracy Technocriticism Technoetic Technoethics Technogaianism Technological alliance Technological apartheid Technological change Technological convergence Technological determinism Technological escalation Technological evolution Technological fix Technological innovation system Technological momentum Technological nationalism Technological paradigm Technological rationality Technological revival Technological revolution Technological self-efficacy Technological singularity Singularitarianism Technological somnambulism Technological transitions Technological unemployment Technological utopianism Technology lifecycle Technology acceptance model Technology adoption lifecycle Technomancy Technorealism Technoromanticism Technoscience Transhumanism Other Emerging technologies List Fictional technology Technopaganism High-technology **business** districts Kardashev scale List of technologies Science, technology and society Technology dynamics Science and technology Science and technology by country STEM fields Pre-STEM women STEAM fields Technology alignment Technology assessment Technology brokering Technology companies Technology demonstration Technology education Technical universities and colleges Technology evangelist Technology fusion Technology governance Technology integration Technology journalism Technology management Technology policy Technology shock Technology strategy Technology and society Technology transfer Technophilia Technophobia Technoself Technosignature Technostress Book Category Commons Portal Wikiquotes Retrieved from " http://en.wikipedia.org/w/index.php?title=Computer_**network**&oldid=623818468 " Categories : Computer **networks** Computer networking Telecommunications engineering Hidden categories: Pages containing cite templates with deprecated parameters All articles with unsourced statements Articles with unsourced statements from August 2010 Wikipedia articles incorporating text from the Federal Standard 1037C Articles with DMOZ links Navigation menu Personal tools Create account Log in Namespaces Article Talk Variants Views Read Edit View history More Search Navigation Main page Contents Featured content Current events Random article Donate to Wikipedia Wikimedia Shop Interaction Help About Wikipedia Community portal Recent changes Contact page Tools What links here Related changes Upload file Special pages Permanent link Page information Wikidata item Cite this page Print/export Create a book Download as PDF Printable version ??????? 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en.wikipedia.org/wiki/Network
483 words in body

Network From Wikipedia, the free encyclopedia Jump to: navigation , search Look up **network** or networking in Wiktionary, the free dictionary. **Network** and networking may refer to: Contents 1 Biological, biosocial, electric, and electronic 2 Mathematics 3 Proper nouns (names) 3.1 Art, entertainment, and media 3.2 In film 3.3 In gaming 3.4 In music 3.5 In print 3.6 In television 4 In organizations 5 See also Biological, biosocial, electric, and electronic [edit] Artificial neural **network** Biological **network Business** networking Computer **network** Electrical **network** Neural **network** Radio **network** Social **network** Telecommunications **network** Television **network** Universities **network** Mathematics [edit] Graph (mathematics) , a set of interlinked nodes Complex **network** , a graph with non-trivial topological features Flow **network** Proper nouns (names) [edit] Art, entertainment, and media [edit] In film [edit] **Network** (film) , a 1976 American movie In gaming [edit] **Network** (video game) , a 1980 **business** simulation game for the Apple II In music [edit] **Network** (album) , a 2004 album by Saga **Network** DVD , British DVD label The **Network** , an American New Wave band In print [edit] **Network** (comics) , a series of Thomas characters **Network**, a member of Sovereign Seven The **Network**, an organization run by comic strip heroine Modesty Blaise In television [edit] net_work (TV series) , a web series produced by Black20 **Network** (TV series) , a Canadian variety television series In organizations [edit] **NETWORK** (lobbying group) , an American social justice group The **Network** (professional wrestling) , a professional wrestling stable See also [edit] Circuit theory Electronic circuit Graph theory Hydraulic circuit **Network** science **Network** theory Pneumatic circuit This disambiguation page lists articles associated with the same title. If an internal link led you here, you may wish to change the link to point directly to the intended article. Retrieved from " http://en.wikipedia.org/w/index.php?title=**Network**&oldid=617407323 " Categories : Disambiguation pages Hidden categories: All article disambiguation pages All disambiguation pages Navigation menu Personal tools Create account Log in Namespaces Article Talk Variants Views Read Edit View history More Search Navigation Main page Contents Featured content Current events Random article Donate to Wikipedia Wikimedia Shop Interaction Help About Wikipedia Community portal Recent changes Contact page Tools What links here Related changes Upload file Special pages Permanent link Page information Wikidata item Cite this page Print/export Create a book Download as PDF ol EsperantoPrintable version Languages Български Català Čeština Dansk Deutsch Españ Français Galego ??? Italiano ???????? Latina Magyar Malagasy Bahasa Melayu ????? Nederlands ??? Norsk bokmål Norsk nynorsk Nouormand Plattdüütsch Polski Português Român? Runa Simi ??????? Sloven?ina Slovenš?ina Svenska Tagalog Türkçe ?? Edit links This page was last modified on 18 July 2014 at 03:34. Text ???? ?????????? is available under the Creative Commons Attribution-ShareAlike License ; additional terms may apply. By using this site, you agree to the Terms of Use and Privacy Policy . Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc. , a non-profit organization. Privacy policy About Wikipedia Disclaimers Contact Wikipedia Developers Mobile view

Social **network** From Wikipedia, the free encyclopedia Jump to: navigation , search This article is about the theoretical concept as used in the social and behavioral sciences. For social networking sites, see Social networking service . For the 2010 movie, see The Social **Network** . For other uses, see Social **network** (disambiguation) . Sociology Outline History Theory Positivism Antipositivism Functionalism Conflict theories Middle-range Mathematical Critical theory Social constructionism Structuralism Interactionism Methods Quantitative Qualitative Historical Computational Conversation analysis Ethnography Ethnomethodology **Network** analysis Subfields Conflict Criminology Culture Development Deviance Demography Education Economic Environment Family Gender Health Industrial Inequality Knowledge Law Literature Medical Military Organizational Political Race and ethnicity Religion Rural Science Social change Social movements Social psychology Stratification Technology Urban Browse Portal People Organizations Journals Index Timeline WikiProject v t e **Network** science Theory Graph Complex **network** Contagion Small-world Scale-free Community structure Percolation Evolution Controllability Graph drawing Social capital Link analysis Optimization Reciprocity Closure Homophily Transitivity Preferential attachment Balance theory **Network** effect Social influence **Network** types Informational (computing) Telecommunication Social Biological Artificial neural Interdependent Semantic Random graph Spatial Dependency Flow Graphs Features Clique Component Cut Cycle Data structure Edge Loop Neighborhood Path Vertex Adjacency list / matrix Incidence list / matrix Types Bipartite Complete Directed Hyper Multi Random Weighted Metrics Algorithms Centrality Degree Betweenness Closeness PageRank Motif Clustering Degree distribution Assortativity Distance Modularity Models Random graph Erdős–Rényi Barabási–Albert Watts–Strogatz Exponential random (ERGM) Epidemic Hierarchical Lists Topics Software **Network** scientists Categories Graph theory **Network** theory v t e A social **network** is a social structure made up of a set of social actors (such as individuals or organizations) and a set of the dyadic ties between these actors. The social **network** perspective provides a set of methods for analyzing the structure of whole social entities as well as a variety of theories explaining the patterns observed in these structures. [1] The study of these structures uses social **network** analysis to identify local and global patterns, locate influential entities, and examine **network** dynamics. Social **networks** and the analysis of them is an inherently interdisciplinary academic field which emerged from social psychology , sociology , statistics , and graph theory . Georg Simmel authored early structural theories in sociology emphasizing the dynamics of triads and "web of group affiliations." [2] Jacob Moreno is credited with developing the first sociograms in the 1930s to study interpersonal relationships. These approaches were mathematically formalized in the 1950s and theories and methods of social **networks** became pervasive in the social and behavioral sciences by the 1980s. [1] [3] Social **network** analysis is now one of the major paradigms in contemporary sociology, and is also employed in a number of other social and formal sciences. Together with other complex **networks** , it forms part of the nascent field of **network** science . [4] [5] Contents 1 Overview 2 History 3 Levels of analysis 3.1 Micro level 3.2 Meso level 3.3 Macro level 4 Theoretical links 4.1 Imported theories 4.2 Indigenous theories 5 Structural holes 5.1 Information benefits 5.2 Social capital mobility benefits 6 Research clusters 6.1 Communications 6.2 Community 6.3 Complex **networks** 6.4 Criminal **networks** 6.5 Diffusion of innovations 6.6 Demography 6.7 Economic sociology 6.8 Health care 6.9 Human ecology 6.10 Language and linguistics 6.11 Literary **networks** 6.12 Organizational studies 6.13 Social capital 6.14 Social media 7 See also 8 References 9 Further reading 10 External links 10.1 Organizations 10.2 Peer-reviewed journals 10.3 Textbooks and educational resources 10.4 Data sets Overview [edit] Evolution graph of a social **network**: Barabási model . The social **network** is a theoretical construct useful in the social sciences to study relationships between individuals, groups , organizations , or even entire societies (social units , see differentiation). The term is used to describe a social structure determined by such interactions . The ties through which any given social unit connects represent the convergence of the various social contacts of that unit. This theoretical approach is, necessarily, relational. An axiom of the social **network** approach to

understanding social interaction is that social phenomena should be primarily conceived and investigated through the properties of relations between and within units, instead of the properties of these units themselves. Thus, one common criticism of social **network** theory is that individual agency is often ignored [6] although this may not be the case in practice (see agent-based modeling). Precisely because many different types of relations, singular or in combination, form these **network** configurations, **network** analytics are useful to a broad range of research enterprises. In social science, these fields of study include, but are not limited to anthropology , biology , communication studies , economics , geography , information science , organizational studies , social psychology , sociology , and sociolinguistics . History [edit] In the late 1890s, both Émile Durkheim and Ferdinand Tönnies foreshadowed the idea of social **networks** in their theories and research of social groups . Tönnies argued that social groups can exist as personal and direct social ties that either link individuals who share values and belief (Gemeinschaft , German, commonly translated as " community ") or impersonal, formal, and instrumental social links (Gesellschaft , German, commonly translated as " society "). [7] Durkheim gave a non-individualistic explanation of social facts, arguing that social phenomena arise when interacting individuals constitute a reality that can no longer be accounted for in terms of the properties of individual actors. [8] Georg Simmel , writing at the turn of the twentieth century, pointed to the nature of **networks** and the effect of **network** size on interaction and examined the likelihood of interaction in loosely knit **networks** rather than groups. [9] Major developments in the field can be seen in the 1930s by several groups in psychology, anthropology, and mathematics working independently. [6] [10] [11] In psychology , in the 1930s, Jacob L. Moreno began systematic recording and analysis of social interaction in small groups, especially classrooms and work groups (see sociometry). In anthropology , the foundation for social **network** theory is the theoretical and ethnographic work of Bronislaw Malinowski , [12] Alfred Radcliffe-Brown , [13] [14] and Claude Lévi-Strauss . [15] A group of social anthropologists associated with Max Gluckman and the Manchester School , including John A. Barnes , [16] J. Clyde Mitchell and Elizabeth Bott Spillius , [17] [18] often are credited with performing some of the first fieldwork from which **network** analyses were performed, investigating community **networks** in southern Africa, India and the United Kingdom. [6] Concomitantly, British anthropologist S.F. Nadel codified a theory of social structure that was influential in later **network** analysis. [19] In sociology , the early (1930s) work of Talcott Parsons set the stage for taking a relational approach to understanding social structure. [20] [21] Later, drawing upon Parsons' theory, the work of sociologist Peter Blau provides a strong impetus for analyzing the relational ties of social units with his work on social exchange theory . [22] [23] [24] By the 1970s, a growing number of scholars worked to combine the different tracks and traditions. One group consisted of sociologist Harrison White and his students at the Harvard University Department of Social Relations . Also independently active in the Harvard Social Relations department at the time were Charles Tilly , who focused on **networks** in political and community sociology and social movements, and Stanley Milgram , who developed the "six degrees of separation" thesis. [25] Mark Granovetter [26] and Barry Wellman [27] are among the former students of White who elaborated and championed the analysis of social **networks**. [28] [29] [30] [31] Levels of analysis [edit] Self-organization of a **network**, based on Nagler, Levina, & Timme, (2011) [32] In general, social **networks** are self-organizing , emergent , and complex , such that a globally coherent pattern appears from the local interaction of the elements that make up the system. [33] [34] These patterns become more apparent as **network** size increases. However, a global **network** analysis [35] of, for example, all interpersonal relationships in the world is not feasible and is likely to contain so much information as to be uninformative. Practical limitations of computing power, ethics and participant recruitment and payment also limit the scope of a social **network** analysis. [36] [37] The nuances of a local system may be lost in a large **network** analysis, hence the quality of information may be more important than its scale for understanding **network** properties. Thus, social **networks** are analyzed at the scale relevant to the researcher's theoretical question. Although levels of analysis are not necessarily mutually exclusive , there are three general levels into which **networks** may fall: micro-level , meso-level , and macro-level . Micro level [edit] At the micro-level, social **network** research typically begins with an individual, snowballing as social relationships are traced, or may begin with a small group of individuals in a particular social context. Social **network** diagram, micro-level. Dyadic level : A dyad is a social relationship between two individuals. **Network** research on dyads may concentrate on structure of the relationship (e.g. multiplexity, strength), social equality , and tendencies toward reciprocity/mutuality . Triadic level : Add one individual to a dyad, and you have a triad . Research at this level may concentrate on factors such as balance and transitivity , as well as social equality and tendencies toward reciprocity/mutuality . [36] Actor level : The smallest unit of analysis in a social **network** is an individual in their social setting, i.e., an "actor" or "ego". Egonetwork analysis focuses on **network** characteristics such as size, relationship strength, density, centrality , prestige and roles such as isolates, liaisons , and bridges . [38] Such analyses, are most commonly used in the fields of psychology or social psychology , ethnographic kinship analysis or other genealogical studies of relationships between individuals. Subset level : Subset levels of **network** research problems begin at the micro-level, but may cross over into the meso-level of analysis. Subset level research may focus on distance and reachability, cliques , cohesive subgroups, or other group actions or behavior . [39] Meso level [edit] In general, meso-level theories begin with a population size that falls between the micro- and macro-levels. However, meso-level may also refer to analyses that are specifically designed to reveal connections between micro- and macro-levels. Meso-level **networks** are low density and may exhibit causal processes distinct from interpersonal micro-level **networks**. [40] Social **network** diagram, meso-level Organizations : Formal organizations are social groups that distribute tasks for a collective goal . [41] **Network** research on organizations may focus on either intra-organizational or inter-organizational ties in terms of formal or informal relationships. Intra-organizational **networks** themselves often contain multiple levels of analysis, especially in larger organizations with multiple branches, franchises or semi-autonomous departments. In these cases, research is often conducted at a workgroup level and organization level, focusing on the interplay between the two structures. [41] Randomly distributed **networks** : Exponential random graph models of social **networks** became state-of-the-art methods of social **network** analysis in the 1980s. This framework has the capacity to represent social-structural effects commonly observed in many human social **networks**, including general degree -based structural effects commonly observed in many human social **networks** as well as reciprocity and transitivity , and at the node-level, homophily and attribute -based activity and popularity effects, as derived from explicit hypotheses about dependencies among **network** ties. Parameters are given in terms of the prevalence of small subgraph configurations in the **network** and can be interpreted as describing the combinations of local social processes from which a given **network** emerges. These probability models for **networks** on a given set of actors allow generalization beyond the restrictive dyadic independence assumption of micro-**networks**, allowing models to be built from theoretical structural foundations of social behavior. [42] Examples of a random

network and a scale-free **network**. Each graph has 32 nodes and 32 links. Note the "hubs" (shaded) in the scale-free diagram (on the right). Scale-free **networks** : A scale-free **network** is a **network** whose degree distribution follows a power law , at least asymptotically . In **network** theory a scale-free ideal **network** is a random **network** with a degree distribution that unravels the size distribution of social groups. [43] Specific characteristics of scale-free **networks** vary with the theories and analytical tools used to create them, however, in general, scale-free **networks** have some common characteristics. One notable characteristic in a scale-free **network** is the relative commonness of vertices with a degree that greatly exceeds the average. The highest-degree nodes are often called "hubs", and may serve specific purposes in their **networks**, although this depends greatly on the social context. Another general characteristic of scale-free **networks** is the clustering coefficient distribution, which decreases as the node degree increases. This distribution also follows a power law . [44] The Barabási model of **network** evolution shown above is an example of a scale-free **network**. Macro level [edit] Rather than tracing interpersonal interactions, macro-level analyses generally trace the outcomes of interactions, such as economic or other resource transfer interactions over a large population . Diagram: section of a large-scale social **network** Large-scale **networks** : Large-scale **network** is a term somewhat synonymous with "macro-level" as used, primarily, in social and behavioral sciences, in economics . Originally, the term was used extensively in the computer sciences (see large-scale **network** mapping) . Complex **networks** : Most larger social **networks** display features of social complexity , which involves substantial non-trivial features of **network** topology , with patterns of complex connections between elements that are neither purely regular nor purely random (see, complexity science , dynamical system and chaos theory), as do biological , and technological **networks** . Such complex **network** features include a heavy tail in the degree distribution , a high clustering coefficient , assortativity or disassortativity among vertices, community structure , and hierarchical structure . In the case of agency-directed **networks** these features also include reciprocity , triad significance profile (TSP, see **network** motif), and other features. In contrast, many of the mathematical models of **networks** that have been studied in the past, such as lattices and random graphs , do not show these features. [45] Theoretical links [edit] Imported theories [edit] Various theoretical frameworks have been imported for the use of social **network** analysis. The most prominent of these are Graph theory , Balance theory , Social comparison theory , and more recently, the Social identity approach . [46] Indigenous theories [edit] Few complete theories have been produced from social **network** analysis. Two that have are Structural Role Theory and Heterophily Theory. The basis of Heterophily Theory was the finding in one study that more numerous weak ties can be important in seeking information and innovation, as cliques have a tendency to have more homogeneous opinions as well as share many common traits. This homophilic tendency was the reason for the members of the cliques to be attracted together in the first place. However, being similar, each member of the clique would also know more or less what the other members knew. To find new information or insights, members of the clique will have to look beyond the clique to its other friends and acquaintances. This is what Granovetter called "the strength of weak ties." [47] Structural holes [edit] In the context of **networks**, social capital exists where people have an advantage because of their location in a **network**. Contacts in a **network** provide information, opportunities and perspectives that can be beneficial to the central player in the **network**. Most social structures tend to be characterized by dense clusters of strong connections. [48] Information within these clusters tends to be rather homogeneous and redundant. Non-redundant information is most often obtained through contacts in different clusters. [49] When two separate clusters possess non-redundant information, there is said to be a structural hole between them. [49] Thus, a **network** that bridges structural holes will provide **network** benefits that are in some degree additive, rather than overlapping. An ideal **network** structure has a vine and cluster structure, providing access to many different clusters and structural holes. [49] Information benefits [edit] **Networks** rich in structural holes are a form of social capital in that they offer information benefits. The main player in a **network** that bridges structural holes is able to access information from diverse sources and clusters. [49] This is beneficial to an individual's career because he is more likely to hear of job openings and opportunities if his **network** spans a wide range of contacts in different industries/sectors. This concept is similar to Mark Granovetter's theory of weak ties, which rests on the basis that having a broad range of contacts is most effective for job attainment. Social capital mobility benefits [edit] In many organizations, members tend to focus their activities inside their own groups, which stifles creativity and restricts opportunities. A player whose **network** bridges structural holes has an advantage in detecting and developing rewarding opportunities. [48] Such a player can mobilize social capital by acting as a "broker" of information between two clusters that otherwise would not have been in contact, thus providing access to new ideas, opinions and opportunities. British philosopher and political economist John Stuart Mill , writes, "it is hardly possible to overrate the value...of placing human beings in contact with persons dissimilar to themselves…Such communication [is] one of the primary sources of progress." [50] Thus, a player with a **network** rich in structural holes can add value to an organization through new ideas and opportunities. This in turn, helps an individual's career development and advancement. A social capital broker also reaps control benefits of being the facilitator of information flow between contacts. In the case of consulting firm Eden McCallum, the founders were able to advance their careers by bridging their connections with former big 3 consulting firm consultants and mid-size industry firms. [51] By bridging structural holes and mobilizing social capital, players can advance their careers by executing new opportunities between contacts. There has been research that both substantiates and refutes the benefits of information brokerage. A study of high tech Chinese firms by Zhixing Xiao found that the control benefits of structural holes are "dissonant to the dominant firm-wide spirit of cooperation and the information benefits cannot materialize due to the communal sharing values" of such organizations. [52] However, this study only analyzed Chinese firms, which tend to have strong communal sharing values. Information and control benefits of structural holes are still valuable in firms that are not quite as inclusive and cooperative on the firm-wide level. In 2004, Ronald Burt studied 673 managers who ran the supply chain for one of America's largest electronics companies. He found that managers who often discussed issues with other groups were better paid, received more positive job evaluations and were more likely to be promoted. [48] Thus, bridging structural holes can be beneficial to an organization, and in turn, to an individual's career. Research clusters [edit] Communications [edit] Communication Studies are often considered a part of both the social sciences and the humanities, drawing heavily on fields such as sociology , psychology , anthropology , information science , biology , political science , and economics as well as rhetoric , literary studies , and semiotics . Many communications concepts describe the transfer of information from one source to another, and can thus be conceived of in terms of a **network**. Community [edit] In J.A. Barnes' day, a " community " referred to a specific geographic location and studies of community ties had to do with who talked, associated, traded, and attended church with whom. Today, however, there are extended "online" communities developed through telecommunications devices and social **network** services . Such devices and

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services require extensive and ongoing maintenance and analysis, often using **network** science methods. Community development studies, today, also make extensive use of such methods. Complex **networks** [edit] Complex **networks** require methods specific to modelling and interpreting social complexity and complex adaptive systems , including techniques of dynamic **network** analysis . Criminal **networks** [edit] In criminology and urban sociology , much attention has been paid to the social **networks** among criminal actors. For example, Andrew Papachristos [53] has studied gang murders as a series of exchanges between gangs. Murders can be seen to diffuse outwards from a single source, because weaker gangs cannot afford to kill members of stronger gangs in retaliation, but must commit other violent acts to maintain their reputation for strength. Diffusion of innovations [edit] Diffusion of ideas and innovations studies focus on the spread and use of ideas from one actor to another or one culture and another. This line of research seeks to explain why some become "early adopters" of ideas and innovations, and links social **network** structure with facilitating or impeding the spread of an innovation. Demography [edit] In demography , the study of social **networks** has led to new sampling methods for estimating and reaching populations that are hard to enumerate (for example, homeless people or intravenous drug users.) For example, respondent driven sampling is a **network**-based sampling technique that relies on respondents to a survey recommending further respondents. Economic sociology [edit] The field of sociology focuses almost entirely on **networks** of outcomes of social interactions. More narrowly, economic sociology considers behavioral interactions of individuals and groups through social capital and social "markets". Sociologists, such as Mark Granovetter, have developed core principles about the interactions of social structure, information, ability to punish or reward, and trust that frequently recur in their analyses of political, economic and other institutions. Granovetter examines how social structures and social **networks** can affect economic outcomes like hiring, price, productivity and innovation and describes sociologists' contributions to analyzing the impact of social structure and **networks** on the economy. [54] Health care [edit] Analysis of social **networks** is increasingly incorporated into health care analytics , not only in epidemological studies but also in models of patient communication and education, disease prevention, mental health diagnosis and treatment, and in the study of health care organizations and systems . [55] Human ecology [edit] Human ecology is an interdisciplinary and transdisciplinary study of the relationship between humans and their natural , social , and built environments . The scientific philosophy of human ecology has a diffuse history with connections to geography , sociology , psychology , anthropology , zoology , and natural ecology . [56] [57] Language and linguistics [edit] Studies of language and linguistics , particularly evolutionary linguistics , focus on the development of linguistic forms and transfer of changes, sounds or words, from one language system to another through **networks** of social interaction. Social **networks** are also important in language shift , as groups of people add and/or abandon languages to their repertoire. Literary **networks** [edit] In the study of literary systems, **network** analysis has been applied by Anheier, Gerhards and Romo, [58] De Nooy, [59] and Senekal, [60] to study various aspects of how literature functions. The basic premise is that polysystem theory, which has been around since the writings of Even-Zohar , can be integrated with **network** theory and the relationships between different actors in the literary **network**, e.g. writers, critics, publishers, literary histories, etc., can be mapped using visualization from SNA. Organizational studies [edit] Research studies of formal or informal organizational relationships, organizational communication , economics , economic sociology , and other resource transfers . Social **networks** have also been used to examine how organizations interact with each other, characterizing the many informal connections that link executives together, as well as associations and connections between individual employees at different organizations. [61] Intra-organizational **networks** have been found to affect organizational commitment , [62] organizational identification , [38] interpersonal citizenship behaviour . [63] Social capital [edit] Social capital is a sociological concept which refers to the value of social relations and the role of cooperation and confidence to achieve positive outcomes. The term refers to the value one can get from their social ties. For example, newly arrived immigrants can make use of their social ties to established migrants to acquire jobs they may otherwise have trouble getting (e.g., because of unfamiliarity with the local language). Studies show that a positive relationship exists between social capital and the intensity of social **network** use. [64] [65] Social media [edit] Computer **networks** combined with social networking software produces a new medium for social interaction. A relationship over a computerized social networking service can be characterized by context, direction, and strength. The content of a relation refers to the resource that is exchanged. In a computer mediated communication context, social pairs exchange different kinds of information, including sending a data file or a computer program as well as providing emotional support or arranging a meeting. With the rise of electronic commerce , information exchanged may also correspond to exchanges of money, goods or services in the "real" world. [66] Social **network** analysis methods have become essential to examining these types of computer mediated communication. See also [edit] Collective **network** Complex **networks** Dynamic **network** analysis International **Network** for Social **Network** Analysis Interpersonal relationship **Network** science **Network** society **Network** theory Semiotics of social networking Social complexity Social group Social media Social **network** analysis Social **Network** (sociolinguistics) Social networking Social relation Social web References [edit] ^ a b Wasserman, Stanley; Faust, Katherine (1994). 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EVENTS AND NETWORKING POLICY AND PUBLIC AFFAIRS **BUSINESS** SERVICES **BUSINESS** ADVICE NEW **BUSINESS** OPPORTUNITIES EXPORT SERVICES AND DOCUMENTS CONFERENCE ROOMS SEARCH Custom Box 1 heading Custom Box 1 heading logged off Home Username Password LOGIN Login help Password reminder About us About membership About international membership Contact us Contact our Media Centre How to find us Work for us © London Chamber of Commerce and Industry 2014 - All rights reserved FREE NETWORKING EVENTS The excellent networking opportunities we provide is the main reason **businesses** join and remain members. Regular attendees report that the **business** networking we provide is as beneficial, or more cost-effective, than any other form of **business** communication they undertake. Our most successful networkers tell us that they get the best from networking events by being prepared to buy as well as sell, attending regularly, referring **business** to other members and working the room effectively. When we were first approached to join we were a little skeptical as to how useful the networking would actually be. However we have found all the sessions really well organised and a genuine opportunity for us to develop contacts and practice our skills. It is particularly beneficial that the membership is for the whole company not just an individual, as this has allowed all of our management team to attend sessions of particular relevance/interest for them. - Liz Live Z-Card Ltd FREE LONDON CHAMBER OF COMMERCE **BUSINESS** NETWORKING EVENTS Members have access to over 100 free **business** networking events including: By Invitation Only - informal, free-flow quarterly evening networking reception exclusive to Premier Plus members within the 51+ employee subscription rates. Attended by up to 100 members from a variety of sectors and **businesses** Cereal Networking - informal, free-flow quarterly breakfast networking reception open to Premier Plus members. Attended by up to 50 members from a variety of **business** sectors and companies ranging from SMEs to big **business** Changing Places @ Lunchtime - informal, free-flow bi-monthly networking reception open to Premier Plus members and their guests. Attended by 90 members from a variety of **business** sectors and companies ranging from SMEs to big **business** Changing Places - informal, free-flow monthly evening networking reception open to members and their guests. Attended by over 150 members from a variety of **business** sectors and companies ranging from SMEs to big **business** Retail Evenings - informal free-flow networking and shopping evenings open to Premier Plus Members form a variety of **business** sectors and companies ranging from SMEs to big **business** International Trade events - these seminars give you up-to-date information on a range of countries that you may be thinking of trading in. Key speakers give you the inside track to help your **business** in the international trade arena Policy events - what's changing in the world of **business** and what difference is it going to make you and your company. These informative briefings keep you up-to-date and informed Local Chamber events - whether you need networking in Croydon, Dockland, Ealing, or Hammersmith & Fulham our local chambers have their own array of events that any Premier Plus member can attend See our calendar of free networking events below or visit our complete events' calendar . 01/09/2014 Time To Talk **Business** At: De Vere Venues Canary Wharf Time: 12.30pm - 2.30pm Nearest Station: Canary Wharf DLR and Jubilee Line Patron, Premier Plus, Local Members and their guests: Complimentary Non-members who have already attended Time To Talk **Business** twice or more: £15.00 Our September event will be a return visit to a much admired venue De Vere Westferry Circus. The magnificent reception lobby to this building at 1 Westferry Circus promises a smart but **business** like environment within, which is indeed the case. The De Vere Group has hosted several of our events over the past decades. We are sure of a warm welcome from our hosts with a complimentary drink and snacks, then cash bar. 16/09/2014 MEET THE SOUTH KOREAN DELEGATION LCCI is welcoming a delegation of South Korean manufacturers in the electronics and security sectors. They are looking for buyers of the following products: - Water ionizers - RF-ID readers - USB digital sound adaptors - Telephone amplifiers and headsets - DJ machines - Touchscreen user interfaces - Wireless-bridges for **network** - Remote controlled drone fighters - Finger-vein and fingerprint sensors At Asia House, 63 New Cavendish Street, London W1G 7LP Time 9.30am - 4.30pm (individual 60 minutes appointments) If you are interested in meeting with them and viewing their profiles , please contact Marta Zanfrini, International **Business** Executive, E: mzanfrini@londonchamber.co.uk or T: +44 (0)20 7203 1822 . Patron Member, Premier Plus Member, Local Member and Members' Guest FREE 17/09/2014 EXCLUSIVE NETWORKING AND SHOPPING EVENING AT MAPPIN & WEBB The Mappin & Webb story begins in 1775, when Jonathan Mappin opened a silver workshop in Sheffield with the mission to create the most beautifully crafted silverware, leather goods and fine jewellery for British high society. It would see the company become synonymous with excellence, craftsmanship and all things truly, greatly British. Today, Mappin & Webb holds Royal Warrants as silversmith to both HM The Queen and HRH The Prince of Wales. In addition our Master Craftsman, Martin Swift, holds the prestigious appointment of Crown Jeweller and maintains the Crown Jewels at both the Tower of London and during state occasions. Up to 50 guests will attend this exclusive event. Guests will have an opportunity to make new **business** connections and strengthen existing **business** links whilst viewing the fine jewellery, watch and corporate gift collections and discovering more about this iconic British brand. Mappin & Webb look forward to welcoming you to the store for a glass of champagne. At Mappin & Webb, Fenchurch Street, London EC3M 5DF Time 6.00pm - 8.00pm For more information contact Events Team, E: events@londonchamber.co.uk or T: +44 (0)20 7203 1700. This complimentary event is strictly open to Patron and Premier Plus Members. A maximum of TWO

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places per company applies. 18/09/2014 RESOURCE EFFICIENCY - DOING MORE WITH LESS This event focuses on a life cycle approach to design and construction, looking at both the potential benefits of adopting this approach and the environmental impact of construction products and materials. The event is co-hosted by the Alliance for Sustainable Building Products (ASBP), London Chamber of Commerce and Industry (LCCI) and The Bartlett, UCL. Patron Member, Premier Plus Member, Local Member and Members' Guest FREE On Thursday 18 September, 2.30pm - 5.30pm followed by networking and refreshments At Pearson G22 Lecture Theatre, UCL, WC1E 6BT For more information contact Marta Zanfrini, International **Business** Executive, E: mzanfrini@londonchamber.co.uk or T: +44 (0)20 7203 1822 23/09/2014 CHANGING PLACES NETWORKING RECEPTION Changing Places is our series of bi-monthly networking receptions, regularly attended by up to 120 of our members from a wide range of industry sectors. These events are held at a different venue each time so, wherever you are based, you are likely to find one held at a venue near you. These complimentary evening receptions are exclusively open to our Patron, Premier Plus and Local members. Guests will receive two welcome drinks on arrival and snacks during the event. Host Venue Collyer Bristow is a leading London-based law firm with a rich history and a bright future, providing a comprehensive range of services to **businesses** and private clients in the UK and internationally. At Collyer Bristow LLP, 4 Bedford Row, London WC1R 4TF Time 6.00pm - 8.00pm Sponsored by For more information contact Events Team, E: events@londonchamber.co.uk or T: +44 (0)20 7203 1700 Patron Member FREE Premier Plus Member FREE Local Member FREE Members' Guest FREE A maximum of two places per company are available. To secure your place/s, please click on the below link and complete the online booking form. Telephone and email bookings will not be accepted. When you are booking place/s on this event, you will be asked the following question: If you do NOT put a TICK in the box(es) provided your name, job title, company and **business** activity will be displayed on the printed guest list. 24/09/2014 CEREAL NETWORKING Cereal Networking is a breakfast networking event exclusively for our Patron and Premier Plus Members. This is the fifth of six Cereal Networking events in 2014. The event is aimed at members from a variety of different **business** sectors and companies, ranging from SMEs to large corporates. It will provide an informal networking environment for attendees to make new **business** connections and catch-up with existing contacts that are in attendance. During the event, guests will be able to help themselves to tea, coffee or juice, as well as pastries, muffins and fruit. At Members' Lounge, London Chamber of Commerce and Industry, 33 Queen Street, London EC4R 1AP Time 7.45am - 9.00am Sponsored by For more information contact Events Team, E: events@londonchamber.co.uk or T: +44 (0)20 7203 1700 Patron Member, Premier Plus Member and Members' Guest FREE Restricted to TWO attendees per Patron Member and Premier Plus Member company. Telephone and email bookings will not be accepted. 25/09/2014 THE GRAPEVINE **NETWORK** Join us at this evening Grapevine **Network** event, which is part of your flagship monthly networking event series in Croydon, that takes place on the last Thursday of every month*. Regularly attend these popular events to create new **business** opportunities, strengthen existing relationships and experience an informal, relaxed and fun atmosphere. You will get to **network** with over 80 like-minded **business** professionals from the local community and beyond. We are delighted to be hosted again by Metro Bank at their impressive Croydon store. *excluding July and December At Metro Bank (Croydon), Centrale Shopping Centre, Unit 1-2, Croydon CR0 1TY Time 6.00pm - 8.00pm For more information contact Linda Saran, Events Executive, E: lsaran.croydon@londonchamber.co.uk or T:+44 (0)20 7556 2393 Patron, Premier Plus, Local Member, Members' Guest: Complimentary Please note: Members' guests are only eligible to attend one Grapevine **Network** event before we invite them to join membership. To secure your place/s please click on the link below. Telephone and email bookings will not be accepted. 01/10/2014 UNLOCKING AND COMMUNICATING THE VALUE OF ENVIRONMENTAL PRODUCT DECLARATIONS (EPD) Practitioners from across the construction sector will share their insights and experiences about the use and benefits of Environmental Product Declarations (EPD). Hear from a leading trade association about their strategy for lower-cost EPD generation - how they are putting the power to produce EPD, across their entire product range, into the hands of their members. Speakers will suggest how contractors can communicate EPD information and add value. We'll learn how BIM and Building Assessment Schemes are transforming the way EPDs are considered and their role in a circular economy. The BRE will update us on the ECO Platform and progress EPD programme operators are making towards mutual recognition of EN 15804 EPD. We will also examine the European Commission's recent Communication on Resource Efficiency Opportunities in the Building Sector and discuss how ASBP might respond. On Wednesday 1 October 2014, 1.30pm - 5.30pm followed by networking and refreshments At UCL, WC1E 6BT (TBC) For more information contact Marta Zanfrini, International **Business** Executive, E: mzanfrini@londonchamber.co.uk or T: +44 (0)20 7203 1822 Patron Member, Premier Plus Member, Local Member and Members' Guest FREE 09/10/2014 MAXIMISE YOUR MEMBERSHIP Membership at Croydon Chamber of Commerce & Industry is all about offering you and your **business** opportunities and providing you with the tools to succeed. Open to all new and existing members or prospective members; find out how membership can boost your **business** by attending this informative session. Discover how to take advantage of our membership services, offers and networking events. Making sure you get the most out of your membership is key to ensuring you achieve all of your **business** objectives. You will also get to meet our team, get some useful tips on how to **network** successfully and start your networking journey by connecting with fellow members and local **businesses**. At: Jurys Inn, Wellesley Road, Croydon CR0 9XY Time: 9.30am - 11.00am Premier Plus, Local Member, Members' Guests and Non Members: Complimentary For more information contact Linda Saran, Events Executive, E: lsaran.croydon@londonchamber.co.uk or T: +44 (0)20 7556 2393 14/10/2014 CHANGING PLACES @ LUNCHTIME Changing Places @ Lunchtime is our series of bi-monthly networking receptions, regularly attended by up to 80 of our members from a wide range of industry sectors. Held at a different venue each time so, wherever you are based, you are likely to find one held at a venue near you. These complimentary events are exclusively open to our Patron and Premier Plus members. Guests will receive one welcome drink on arrival (a cash bar will

be in operation for additional drinks) and snacks during the event. Our Host Venue Opened in 2008 Mint Leaf Lounge is located next to the iconic Bank of England in the City of London. The Lounge offers a contemporary dining experience in the heart of the City where guests can enjoy innovative Indian cuisine in an elegant and stylish setting. Mint Leaf's striking bar is one of the longest in London with over 500 spirits and an extensive cocktail list available. At Mint Leaf Lounge and Restaurant, 12 Angel Court, Lothbury, Bank London EC2R 7HB Time 12:00pm - 2:00pm Sponsored by For more information contact Events Team, E: events@londonchamber.co.uk or T: +44 (0)20 7203 1700 Patron Member, Premier Plus Member and Member's Guest FREE A maximum of two places per Member company is available. To secure your place/s, please click on the below link and complete the online booking form. Telephone and email bookings will not be accepted. 15/10/2014 TIME TO TALK **BUSINESS** At Mercure London Greenwich Hotel Time 12.30pm - 2.30pm Nearest Station Greenwich DLR and national rail Patron, Premier Plus, Local Members and their guests Complimentary Non-members who have already attended Time To Talk **Business** twice or more £15.00 A maximum of two places per company are available. Mercure London Greenwich Hotel is a classicly designed building standing in a secluded square a short walk from Greenwich station. It offers easy access to Royal Greenwich's many visitor attractions. Our hosts will welcome us into one of the elegant assembly rooms with a complimentary drink and snacks followed by a cash bar for our monthly networking event. 20/10/2014 LCCI LIFE LCCI Life is our bi-annual unique showcase event for PAs and Corporate Event Bookers. With over 50 exhibitors from the hospitality, leisure and retail industry, LCCI Life is the perfect event for you to keep up-to-date with London's top venues, travel agents and corporate gift companies in a fantastic relaxed and informal setting. With fabulous prizes available throughout the evening, this is one event you won't want to miss At London Chamber of Commerce and Industry, 33 Queen Street, London EC4R 1AP Time 5.30pm - 8.30pm For more information contact Emma Wood, Event Executive E: ewood@londonchamber.co.uk or T: +44 (0)20 7203 1876 LCCI Life is STRICTLY for PAs and corporate Event Organisers only. Registration is at the discretion of the LCCI Life Event Manager. Supported by Member and Non-member FREE 12/11/2014 CEREAL NETWORKING Cereal Networking is a breakfast networking event exclusively for our Patron and Premier Plus Members. This is the last Cereal Networking event in 2014. The event is aimed at members from a variety of different **business** sectors and companies, ranging from SMEs to large corporates. It will provide an informal networking environment for attendees to make new **business** connections and catch-up with existing contacts that are in attendance. During the event, guests will be able to help themselves to tea, coffee or juice, as well as pastries, muffins and fruit. At Members' Lounge, London Chamber of Commerce and Industry, 33 Queen Street, London EC4R 1AP Time 7.45am - 9.00amSPONSORED by Sponsored by For more information contact Events Team, E: events@londonchamber.co.uk or T: +44 (0)20 7203 1700. Patron Member, Premier Plus Member and Members' Guest FREE Restricted to TWO attendees per Patron Member and Premier Plus Member company. Telephone and email bookings will not be accepted. To speak to our team about how LCCI membership can help you connect with other **businesses**, influence on your behalf and provide practical support; contact us on T: + 44 (0)20 7203 1881 or E: membersales@londonchamber.co.uk . Alternatively you can give us a few details here and we'll call you back or complete an online application form .

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Richmond & Twickenham **Business** Networking Meeting 34 People in **business** Next Meetup: Sep 26 Small **Business Network** 213 Members Next Meetup: Sep 15 Branding **Network** 367 Members EBANG: Essex **Business** Advisers Networking Group 17 EBANGERS Next Meetup: Sep 15 South London Child Friendly Networking Group 9 Ambitious Parents **Business** Brand Accelerator 27 Entrepreneurs Next Meetup: Oct 17 Drinks & Links - London 4,145 Great People Entrepreneurs Networking Group 132 Members The **Business** Growth Blueprint: Learn to Grow Your **Business** 111 The Elite Entrepreneurs Kickass Entrepreneur Networking Event 52 North London Entrepreneurs Free Networking 1.30pm 18/12 @ Yager Bar EC4M8EN 07828664917 14 **Business** Networkers Internet Marketing Help & **Business** Networking - Herts/Essex 17 Seekers of Sales International **business network** 19 Members London Achiever's Entrepreneur/ Property investors 55 London Achiever's Entrepreneurs Banking and Finance Professionals London (BFP London) 1,528 Professionals Next Meetup: Sep 11 LIFE CHANGING EVENTS & SEMINARS in London for FREE New 203 Members Next Meetup: Tomorrow Tech Start-up Networking London 171 Techies Next Meetup: Tomorrow Ducciozambrini.com exclusive Members Club 99 Members of the Club Next Meetup: Sep 5 London Social Society 787 London Socialites Next Meetup: Tomorrow The London Traders **Network** 1,332 Traders Next Meetup: Sep 17 Freelancers and freespirits 427 Kindred spirits Next Meetup: Sep 8 **Business** Workshops, Training and Networking 49 Members Next Meetup: Sep 15 social networking for musicians,actors &creatives in general 290 creatives London Property Investors **Network** (pin) 227 CWpin Members Next Meetup: Sep 4 Premier Property Networking Club - London Canary Wharf 97 Premier Club Gold Members Next Meetup: Sep 23 Freedom Works UK - Community Works 32 Members Next Meetup: Sep 5 Islington Property Networking 210 Islington Property Networkers Next Meetup: Sep 10 Likacoaching 161 Professionals from Europe Next Meetup: Sep 6 Career Circus Young Professionals **Network**, London 72 Young Professionals Next Meetup: Sep 17 London **Business** Angels & Entrepreneurs 1,154 Entrepreneurs The London Pro-Bono Accountants 51 Entrepreneurs The London Property Investors Meet 722 London Property Professionals Next Meetup: Sep 23 International London Socialites-Professionals & Networkers 556 I L Socialites Accelerace 115 Entrepreneurs School for Startups Home **Business** Meetup 223 Members London Luxury: The **Business** of Luxury Goods and HNW services 120 Luxury & wealth management folk Freelance Brains 221 freelancebrains Six O'Clock Club London 278 Six O'Clock Clubbers The Communication Development Group 111 Communication Team Members Pollen London: the marketing networking night 165 Networkers Kent Success Group 11 Kent Success Group LinkedUp - Professional & Entrepreneur Networking 33 Connected Londoners Next Meetup: Jan 15 **Business** and Social Networking Group 132 Networkers Next Meetup: Dec 10 Grow your **Business**, keep the equity. 180 Grant Maximisers Shake On It (**Business** and social networking) 45 Shakers **Business** Skills Exchange 23 Financial Freedom Seekers Free Entrepreneurial Training Workshops 116 The ambitious London Banquet Plus 114 Members Using Social Experiences To Kick-Ass & Start A Movement 20 Members Interesting Talks London 8,928 Interested Listeners Next Meetup: Sep 8 Silicon Roundabout 5,733 Inner Circle Next Meetup: Sep 17 MiniBar 7,233 Internet Professionals Next Meetup: Sep 11 AppsJunction-Developers, Startups, Investors, Speakers 2,922 Apps Enthusiasts The Twickenham Social Meetup 1,109 Twickers Locals Next Meetup: Sep 7 London Behavioural Economics **Network**, monthly drinks 697 members Next Meetup: Sep 9 Forward Partners Live - Tech Startup Speakers Events 121 Members Next Meetup: Sep 24 Film Professionals Connection 391 Filmmakers Next Meetup: Sep 10 Beermat Monday - London 694 Members Next Meetup: Nov 3 Donatello Club London 360 Friends Next Meetup: Tomorrow Startups @ London 1,150 Entrepreneurs and Co-founders CoFoundersLab Matchup London 366 Entrepreneurs Next Meetup: Sep 10 The City of London Gay Meetup Group 577 Members Next Meetup: Sep 16 LGBT Professionals 335 LGBT Professionals Next Meetup: Tomorrow Spanish Conversation with Spanish Tutor in London 632 Members Next Meetup: Tomorrow Broadgate Toastmasters - improve your public speaking skills 619 Public Speakers Next Meetup: Sep 9 Peer2peer Legal Advice for Startups 853 Members Next Meetup: Sep 17 Graduate Data Science Initiative 382 Data Scientists Next Meetup: Sep 20 lesbian of colour socials - LOCS 109 Members Next Meetup: Sep 6 Say YES! to your Life - UK Meetup Group! 234 Transformational Members Next Meetup: Sep 7 London Giggle 26 Girls Next Meetup: Sep 5 SATURDAY LIFE DRAWING AND COMEDY CLUB 113 Saturday Artists Next Meetup: Sep 6 Chelsea Women's Socialising and Networking Group (London) 60 Ladies Next Meetup: Sep 4 #WomenRock New 15 Members Next Meetup: Sep 27 Female Formula 192 Naturals Asian Dinner Club 461 Asian Singleton Next Meetup: Sep 12 Love Property in N1 Meetup Group 261 Members Next Meetup: Sep 23 Innate Thought - A New Beginning 53 Members Next Meetup: Tomorrow Lesbian & Gay Professionals 44 L & G Professionals Next Meetup: Tomorrow London : Girl Gone International 928 girls gone international Online Mastery - Live Events and Meetups New 27 Outstanding Action Takers Finance Your BitCoin **Business** & Meet BitCoin Investors 155 UK BitCoiners Next Meetup: Sep 5 Union Black 89 Members Established Young Entrepreneurs Meetup 124 Young Entrepreneurs Peak Performers in London - Leadership Development Community 79 Peak Performers Taking Action, Making it Happen - Central London 50 Members Next Meetup: Sep 9 London Osho Active Meditations Group 1,355 Active Meditators The Adobe & Web Open Source London Meetup Group 115 Dreamweavers & Web Open Sources Next Meetup: Sep 25 AppFusion London 821 mobile app folks Zappers - Software Testing

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Business networking From Wikipedia, the free encyclopedia Jump to: navigation , search Not to be confused with **Network** marketing . This article does not cite any references or sources . Please help improve this article by adding citations to reliable sources . Unsourced material may be challenged and removed . (June 2014) Networking' is a socioeconomic **business** activity by which groups of like-minded businesspeople recognize, create, or act upon **business** opportunities. A **business network** is a type of **business** social **network** whose reason for existing is **business** networking activity. There are several prominent **business** networking organizations that create models of **business** networking activity that, when followed, allow the **business** person to build new **business** relationships and generate **business** opportunities at the same time. A professional **network** service is an implementation of information technology in support of **business** networking. Many **business** people contend **business** networking is a more cost-effective method of generating new **business** than advertising or public relations efforts. This is because **business** networking is a low-cost activity that involves more personal commitment than company money. Country-specific examples of informal networking are guanxi in China, blat in Russia, Good ol' boy **network** in America, and Old boy **network** in the UK. In the case of a formal **business network**, its members may agree to meet weekly or monthly with the purpose of exchanging **business** leads and referrals with fellow members. To complement this **business** activity, members often meet outside this circle, on their own time, and build their own one-to-one **business** relationship with the fellow member. **Business** networking can be conducted in a local **business** community, or on a larger scale via the Internet . **Business** networking websites have grown over recent years due to the Internet's ability to connect **business** people from all over the world. Internet **businesses** often set up **business** leads for sale to bigger corporations and **businesses** looking for data sources for **business**. **Business** networking can have a meaning also in the ICT domain, i.e. the provision of operating support to **businesses** and organizations, and related value chains and value **networks** . Contents 1 General **business** networking 2 **Networked business** 3 See also 4 References 5 External links General **business** networking [edit] Before online **business** networking, there existed face-to-face networking for **business**. This was achieved through a number of techniques such as trade show marketing and loyalty programs. Though these techniques have been proven to still be an effective source of income, many companies now focus more on online marketing due to the ability to track every detail of a campaign and justify the spend involved in setting up one of these campaigns. [1] "Schmoozing" or "rubbing elbows" are expressions used among professional **business** professionals for introducing and meeting one another in a **business** context, and establishing **business** rapport. **Networked business** [edit] This section may be confusing or unclear to readers . In particular, it may require a rewrite, if it's not actually propaganda. (June 2014) With **business** networking developing more **business**, many **businesses** now have this as a core part of their **business** strategy. Those **businesses** that have developed a strong **business network** of **business** connections suppliers and **businesses** can be seen as **networked businesses**, and will tend to source the **business** and their suppliers through the **network** of relationships that they have in place. **Networked businesses** tend to be open, random, and supportive, whereas those relying on hierarchical , traditional managed approaches are closed, selective, and controlling. These phrases were first used by businessman Thomas Power, businessman and chairman of Ecademy, an online **business network**, in May 2009. [citation needed] See also [edit] Professional **network** service Personal **Network** References [edit] ^ Peter Symonds Why Offline Marketing Still Works in a Digital World , The Display Hub by Display Wizard , 28th July 2014 External links [edit] Why you should join a referral group Networking for Introverts 9 Ways To Leverage Your Online **Business** Networking Activities , April 18, 2010 Hubert Österle, Elgar Fleisch, Rainer Alt (2001), **Business** networking: shaping collaboration between enterprises (2, illustrated ed.), Springer, ISBN 978-3-540-41351-6 v t e **Business** organizations Types Employers' organization Chamber of commerce Trade association Cooperative federation Regional Zaibatsu (Japan) Keiretsu (Japan) Chaebol (South Korea) Oppositional groups Trade union Consumer organization See also **Business** networking Cartel Retrieved from " http://en.wikipedia.org/w/index.php?title=**Business**_networking&oldid=622894167 " Categories : **Business** models **Business** terms Professional Hidden categories: Articles lacking sources from June 2014 All articles **networks** lacking sources Wikipedia articles needing clarification from June 2014 All Wikipedia articles needing clarification All articles with unsourced statements Articles with unsourced statements from June 2014 Navigation menu Personal tools Create account Log in Namespaces Article Talk Variants Views Read Edit View history More Search Navigation Main page Contents Featured content Current events Random article Donate to Wikipedia Wikimedia Shop Interaction Help About Wikipedia Community portal Recent changes Contact page Tools What links here Related changes Upload file Special pages Permanent link Page export Create a book Download as/information Wikidata item Cite this page Print Українська Edit links This page עברית PDF Printable version Languages Français was last modified on 26 August 2014 at 15:09. 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Sign up for our e-newsletter Search BIPC Home Visit us Workshops & events Advice Databases & publications Our partners About us Growth bl.uk > Home > **Business** networking **Business** networking Link 1 Soul Trader: Your life, your **business**' workshop Food for thought with Thomasina Miers Know your elevator pitch! **Business Networks** - The Do's and Don'ts Events to promote **business** networking Networking is an essential part of setting up and running your own

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business, helping you to find potential customers, partners, suppliers and the chance to meet like-minded entrepreneurs. For any **business** willing to succeed, growth is central to ensuring that the service, brand or product survives and becomes a success. **Business** networking is not all about exposure; it can also serve as a very valuable medium to get unbiased help and support from other **business** owners and entrepreneurs. This is especially valuable when your **business** is still new and you are trying to find the best way to do things. **Network** in the Centre We have a free networking area in the Centre, where you can meet other entrepreneurs, use the free wifi and hold informal **business** meetings. Sometimes, getting out of your **businesses** premises and into a neutral environment can be helpful, not to mention the opportunity to meet other **business** owners. We also run a series of networking events that are a great chance to make essential contacts for your **business**. There is also a great range of free and highly-subsidised events where you can meet other entrepreneurs and experts, as well as gaining important **business** insight, advice and knowledge. For more information view our workshops and events calendar. **Network** with us online Social Media is another great tool for **business** networking, where you can share **business** tips, trends and articles, not to mention linking up with other **business** owners and hearing what they have to say. All of this can be done via our: Facebook Group LinkedIn Group Twitter Feed Helping you find other small **business networks** Finding **business networks** relevant to your **business** and customer base can be a very valuable way to get extra insight and contacts. Although wider **business networks** can be useful to get broad perspective, more specific **networks** can really narrow down what you need to succeed. On our **Business** essentials wiki you can find lists of **networks** in London for entrepreneurs and SMEs. Knowledge Peers Knowledge Peers Startups Startsups.co.uk is an online resource offering advice, products and services to new **businesses** Striding Out A community working together to develop entrepreneurial skills and supportive relationships Women Unlimited A community for women who want to start a **business**, or grow an existing **business** Join us online Success stories Imtaz Khaliq is a bespoke tailor whose work has featured on GMTV and Channel 4... See our success stories e-newsletter View a sample issue Contact us **Business** & IP Centre The British Library 96 Euston Road London NW1 2DB Tel: +44 (0)20 7412 7901 Email: Reference Team By using this site, you agree we can set and use cookies. For more details of these cookies and how to disable them, see our cookie policy . Accessibility Terms of use Sitemap Copyright © The British Library Board Copyright © The British Library Board

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Top Navigation Body Footer News and events Contact us Home About us Research projects Our experts Publications and reports Useful links PhD Scholarships The University of Greenwich has the largest concentration of **business network** analysts in Europe. Organisational and economic **network** analysis is providing powerful insights into the ways people relate to one another within and across organisational boundaries. The techniques allow a rigorous quantification of many aspects of relationships that have previously at best been sensed intuitively. The Centre for **Business Network** Analysis is applying the techniques of organisational **network** analysis to a wide range of **business** problems, reconceiving individual firms, organisations and markets as structured relationships. Our experts have published widely and are working on a range of current research projects including fields within enhanced networking with social media, black and minority ethnic career support **networks** and interorganisational **networks** in microfinance. We provide: Presentations to corporate audiences Short courses Training in software and analysis Problem-solving and software consultancy Certified postgraduate courses Commissioned research News and events Five PhD Scholarships available with the Centre for **Business Network** Analysis commencing 2014-15. CBNA members Francesca Pallotti, Guido

Conaldi and Alessandro Lomi win Best International Paper in Academy of Management HCM Division . Nominees for Best International Paper in the Academy. May 23, 2014. Susan O'Shea, University of Manchester. When birds of a feather rock together is it all for the love of homophily? Hamilton House, 11.30-13:00. May 27, 2014. Prof Mark Mizruchi, University of Michigan. Domination via fragmentation: The decline of the American (and British?) corporate elite . QA065, 13:00-14:00. May 30, 2014. Dr Kathryn Oliver, University of Manchester. Strategies to influence people and organisations in public health policy. Hamilton House, 11.30-13:00. June 2-11, 2014. Summer School in Social **Network** Analysis . © 2013 The University of Greenwich Accessibility

Base Home About Us Columnists Contact Support in your Area Events Navigation Prowess Women in **Business** Support for women in **business** and their advisers. Home Categories Home Start & Grow Marketing & Social Media Startup Guides Home **Business** Growth Lead & Manage Mindset Networking Online **Business** Social enterprise Funding Funding Money Saving Managing Money Support Support in your area Events Stories Overcoming Hardship 50+ Mums in **business** Student entrepreneurs Growth stories Innovators & Inventors Campaign Campaign Facts Research & Policy Return to Content Women's **Business Networks** Listings By admin on December 11, 2013 Tweet cc Courtesy of JodiWomack via Flickr Women's **business networks** are thriving. There have never been more and they've never been more in demand. And there's a very good reason: most women in **business** find that other women in the same position are their most valuable form of support, inspiration and **business** connections. If you're not already a member of a **network**, maybe now is the time to give it a go? **Networks** vary in their approach and atmosphere and you might need to try a few before you find the one that's right for you. Most charge fairly modest fees, but some referral **networks** can be very pricey; be sure that this approach to networking is right for your **business** and go along as a guest a couple of times before you sign-up. Below we've listed a wide range of women's **business networks** across the UK and also a few **networks** in other countries. All of those groups have regular local meetings. For up-to-date information about locations, events and fees click through to the website of the **network** you're interested in. If you can't find a **network** in your area, have a look at our **business** support map – it includes women's **business** organisations, which often also provide networking opportunities. We're keen to make the Listings even more comprehensive: if you run a **network** and would like to be added to the Prowess Women's **Business Networks** Listing, please get in touch . For tips on how to enjoy networking and get the most out of it, read this great article: How to **network** . UK Women's **Business Networks** Association of Scottish Businesswomen The umbrella organisation for **business** and professional women's clubs throughout Scotland. **Business** Women's Link is a friendly **network** of women who both working for themselves or as part of a larger organisation. Regular social and corporate events across Lincolnshire and the East Midlands. Cambridge Businesswomen's **Network** Monthly meetings are open to women from all sectors of the **business** community and professions, small **businesses** and start ups to corporates. East London Creative Women **Business Network** Peer to peer **network** set up to grow and sustain women **business** leaders in the arts & creative sectors in East London, meets monthly. Free/ minimal cost. Fabulous Women "To inspire, inform and motivate women in life and in **business**." Meetings in Surrey, London, home counties. Flying Start offers women in Birmingham specialist social enterprise **business** support through masterclasses, mentoring, peer support and 1-1 advice. **Network** meetings are held in Digbeth, Birmingham. Forward Ladies Networking events for women in **business** across the North of England. Over 350 events a year. Highflying Divas A not-for-profit mentoring forum for professional women in their own **business** or a career, with meetings in Essex and London. Networking Women is a collaborative organisation offering networking opportunities for women running small **businesses** in Oxfordshire, Wiltshire and Gloucestershire. Norwich **Business** Women's **Network** Friendly monthly **business** networking for businesswomen and women in corporate roles in Norwich and Norfolk. Rural Women's **Network** A **network** of 10 women's **business networks** across Cumbria. Sussex Women In **Business** Sussex Women in **Business** is a not-for-profit, non-political, voluntary **network** for women in **business**. The Athena **Network** A national referrals focused **network** which is managed by local franchisees. The Women in **Business Network** A referrals based **network**, which has around 70 groups managed by local franchisees. 1230 The Women's Company London and Kent. Franchise based networking meetings and events. Vale Women's **Business Network** For women in the Vale of Glamorgan, South Wales. WiRE Women in Rural Enterprise – the national **business** club for rural women in **business**. Women in **Business** Hull is a networking organisation for decision-making women in Hull, East Yorkshire and North/North East Lincolnshire. Women in **Business** NI **Network** for women in **business** across Northern Ireland. Women in **Business** (NW) Networking, training and awards for women in the Merseyside area. Women in Management **network** (WiM) offers a varied programme of events across the UK. WiM London regularly hosts events in the City encouraging the discussion of issues affecting the women managers of today and the future. Women Mean Biz For professional women in Bristol, Bath and North Somerset. WIN Networking events and awards for women in the North East of England. Women Outside The Box **Business** Club for freelancers, entrepreneurs and corporate women runs monthly in Bristol for training and networking. Festival of female entrepreneurship in October each year. Women Unlimited Events and workshops for women in the London area. Women What Do Hartlepool based **network** for women who are starting or run their own **business**, freelancers and third sector female leaders. Women's **Business** Zone Networking groups and **business** support for women in York, Selby and Northallerton. International Women's **Business Networks** Canada – Company of Women is an organization that connects and supports women in **business**. We provide monthly events in seven cities across Canada, as well as an annual conference and online publications. Canada and Ireland – The Women's Executive **Network** (WXN) hosts professional development and networking events in 8 cities including Toronto, Mississauga, Richmond Hill, Ottawa, Montreal, Vancouver, Calgary and Edmonton, as well as in Dublin, Ireland. Related Posts The Good, Bad and Ugly of **Business** Networking Local Support for Women in **Business** Think, Feel, Do… How to Jump-Start your Self-

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Confidence Awards for Women in **Business** Listings **business** clubs , Events , Networking , Women's **Business Networks** Top Five Tools For PR Success Using Pinterest for Market Research Logging In... Profile cancel Sign in with Twitter Sign in with Facebook or Name Email Not published Website Comment Notify me of follow-up comments by email. Notify me of new posts by email. 6 Replies 5 Comments 0 Tweets 0 Facebook 1 Pingback Last reply was 2 months ago Sarah Ainslie View February 20, 2012 This is a great post; it's good to see that women have access to a number of sources of support for their **business** and for their personal development as well. At Forward Ladies we find that our members gain real value from the support they get from other like-minded women who are running **businesses** or developing their careers (we welcome both). We also find that women's needs are often different from men's and that they seek a range of types of support including skills development, peer support/mentoring, online resources and access to listen and speak to inspiring women, as well as 'pure networking'. Reply Jane Horwood View October 9, 2012 I have been running http://www.cambridgewomen.co.uk since 2005. No membership fee. Just the cost of lunch. Informal and friendly but a great a way to 'do **business**' and meet other like minded women. Reply Jacqui Burke (@jacquiburkefp) View January 5, 2013 RT @WomensBiz: Women's **Business Networks** Listings http://t.co/e3j76jeQ Reply Start-up Stories: In My Father's Footsteps | Women in **Business** | Prowess 2.0 View February 11, 2013 [...] has been 100% supportive in my decisions, too. I would recommend you surround yourself with a firm support **network**, whether it will be your family or external circle of contacts and friends, and this can give you [...] Reply Anna B. Sexton View August 22, 2013 I have just discovered your post and thank you for including East London Creative **Business** Women **Network** in as we are newbie in a list of strong and long set up **networks**. Thanks for including us – we grow more each month and are in the position now to set bigger more academic and higher profile partners to sustain us! Yeah! ELCBWN Reply Emma Thorpe View 2 months ago This is a very useful site for women in **business**! I have been running MidKent LadiesWhoLatte for 3 years now in Chatham, Kent. It's a great group of **business** women who meet for 2 hours on the 2nd Thursday each month at 9.30am for £3. We have helped so many ladies move on with their **businesses**. No booking necessary, just turn up! Two of our ladies do their **business** presentations each month, which helps them practice and hone their presenting skills. We then go round the room talking about everyone's events, then it's open networking. We get between 20 and 30 ladies every month. Reply Sign-up for the Newsletter! The top-up for women in **business** Monthly | Easy to unsubscribe | Privacy safe. Popular Latest Comments Tags General Election 2015 – Why Women in **Business** Need to be on the Agenda May 7, 2014 Universal Credit for the Self-Employed: unworkable, unfair and short-sighted November 8, 2013 Is work-life balance a myth for home-based female entrepreneurs? November 27, 2013 Partnership? Date first! February 24, 2014 Why women in **business** is a headline issue November 13, 2013 Success is about Making a Difference October 30, 2013 You can never please all the people – Live with it February 19, 2014 Should you commit random acts of marketing? September 1, 2014 Ownership of Legal Services Gets More Complicated September 1, 2014 Staying on holiday with your **business** August 28, 2014 "If you've done it once, you can do it again, only better" August 25, 2014 Summer Reads: The Growth Story by @SueStockdale August 21, 2014 Starting your **business** on the side August 18, 2014 How to reinvent yourself post 50 August 13, 2014 Sue-Slique Photography: Amazing story! Well done Aelita! I wish you a succ... Oliver R.: Hi Sue, Thank you for your instructive guide. O... Izhar Ul Haq: Its really extreme level of trust, I never see com... Katie Day: Thank you so much Monalisa, I'm so glad you enjoy... UTheCenter: Interested in starting your own **business** while in ... monalisa: Hi,thanks for sharing this article its really nice... Adrian Brown of 2be2serve: This is taking it the ultimate level of trust and ... 50+ Awards Balance Banking Blogging Boards Brand **Business** Support Childcare Coaching communication Confidence Creative Industries Creativity Featured Food & Drink Funding Growth Health & Safety Home **business** Infographic Leadership Management Marketing Mentoring Mumpreneurs Negotiation Networking Online **Business** passion Planning policy PR recession research Sales Social media Start-up Statistics Stereotypes Technology Time-management Values Venture capital Work-life balance Follow @ProwessHQ Tweets by @WomensBiz Follow this blog Contributors Get involved About Prowess Contact Contributors Write for Us Keep in touch Popular topics 50+ Balance Brand **Business** Support Childcare Coaching communication Confidence Creative Industries Creativity Funding Growth Home **business** Infographic Leadership Management Marketing Mentoring Networking Online **Business** Planning policy PR recession Sales Social media Start-up Technology Values Work-life balance Blog Awards Designed by Greenwell This popup will be closed in: You've been here for 3 minutes... why not sign-up for our newsletter? Monthly | Easy Unsubscribe | Privacy safe * indicates required Email Address * First name * var mce_preload_checks = 0;function mce_preload_check(){ if (mce_preload_checks>40) return; mce_preload_checks++; try { var jqueryLoaded=jQuery; } catch(err) { setTimeout('mce_preload_check();', 250); return; } try { var validatorLoaded=jQuery("#fake-form").validate({}); } catch(err) { setTimeout('mce_preload_check();', 250); return; } mce_init_form();}function mce_init_form(){ jQuery(document).ready(function($) { var options = { errorClass: 'mce_inline_error', errorElement: 'div', onkeyup: function(){}, onfocusout:function(){}, onblur:function(){} }; var mce_validator = $("#mc-embedded-subscribe-form").validate(options); $("#mc-embedded-subscribe-form").unbind('submit');//remove the validator so we can get into beforeSubmit on the ajaxform, which then calls the validator options = { url: 'http://prowess.us2.list-manage.com/subscribe/post-json?u=cf93bc8813f2997b8a6e18134&id=ee6f568b13&c=?', type: 'GET', dataType: 'json', contentType: "application/json; charset=utf-8", beforeSubmit: function(){ $('#mce_tmp_error_msg').remove(); $('.datefield','#mc_embed_signup').each(function(){ var txt = 'filled'; var fields = new Array(); var i = 0; $(':text', this).each(function(){ fields[i] = this; i++; }); $(':hidden', this).each(function(){ var bday = false; if (fields.length == 2){ bday = true; fields[2] = {'value':1970};//trick birthdays into having years } if (fields[0].value=='MM' && fields[1].value=='DD' && (fields[2].value=='YYYY' || (bday && fields[2].value==1970))){ this.value = ''; } else if (fields[0].value==" && fields[1].value==" && (fields[2].value==" || (bday && fields[2].value==1970))){ this.value = ''; } else { if (/\[day\]/.test(fields[0].name)){ this.value = fields[1].value+'/'+fields[0].value+'/'+fields[2].value; } else { this.value

	= fields[0].value+'/'+fields[1].value+'/'+fields[2].value; } } }); }); return mce_validator.form(); }, success: mce_success_cb }; $('#mc-embedded-subscribe-form').ajaxForm(options); });}function mce_success_cb(resp){ $('#mce-success-response').hide(); $('#mce-error-response').hide(); if (resp.result=="success"){ $('#mce-'+resp.result+'-response').show(); $('#mce-'+resp.result+'-response').html(resp.msg); $('#mc-embedded-subscribe-form').each(function(){ this.reset(); }); } else { var index = -1; var msg; try { var parts = resp.msg.split(' - ',2); if (parts[1]==undefined){ msg = resp.msg; } else { i = parseInt(parts[0]); if (i.toString() == parts[0]){ index = parts[0]; msg = parts[1]; } else { index = -1; msg = resp.msg; } } } catch(e){ index = -1; msg = resp.msg; } try{ if (index== -1){ $('#mce-'+resp.result+'-response').show(); $('#mce-'+resp.result+'-response').html(msg); } else { err_id = 'mce_tmp_error_msg'; html = ' '+msg+' '; var input_id = '#mc_embed_signup'; var f = $(input_id); if (ftypes[index]=='address'){ input_id = '#mce-'+fnames[index]+'-addr1'; f = $(input_id).parent().parent().get(0); } else if (ftypes[index]=='date'){ input_id = '#mce-'+fnames[index]+'-month'; f = $(input_id).parent().parent().get(0); } else { input_id = '#mce-'+fnames[index]; f = $().parent(input_id).get(0); } if (f){ $(f).append(html); $(input_id).focus(); } else { $('#mce-'+resp.result+'-response').show(); $('#mce-'+resp.result+'-response').html(msg); } } } catch(e){ $('#mce-'+resp.result+'-response').show(); $('#mce-'+resp.result+'-response').html(msg); } }}//]]> Directory powered by **Business** Directory Plugin

* **Duplicate words in keyphrases** Quite often it happens that some of the keywords in your keyphrases coincide. This means that you do not have to use complete keyphrases all the time.
To make more natural-looking content, it is good to sometimes use your keyphrases without those repeating words or include other words into your keyphrases.

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