

Internet Milestones



Computer Networks
A15

Top 10

40 Undergrad Surveys {Fall 2015}

1.	WWW	(5) (165)
2.	ARPANET	(7) (151)
3.	Email	(2) (136)
4.	DNS/ Name Server	(1) (124)
5.	First Packet	(7) (121)
6.	IPv6/Internet2	(0) (92)
7.	Search Engines	(0) (74)
8.	TCP/IP	(1) (66)
9.	Internet Commerce	(1) (57)
10.	Attacks(worm,virus, spam,DoS)	(0) (56)
11.	Facebook	(1) (55)
12.	Dial Up	(1) (47)
16.	Browser (Mosaic)	(0) (31)

Top 10

18 Undergrad Surveys {Fall 2014}

1. TCP/IP	(2)	(108)
2. ARPANET	(5)	(92)
3. First Packet	(4)	(74)
4. DNS/ Name Server	(0)	(68)
5. WWW	(2)	(67)
6. Email	(0)	(59)
7. Worms	(0)	(38)
8. Wifi/Wireless	(1)	(27)
9. Dial Up	(1)	(22)
10. Browser (Mosaic)	(0)	(21)
11. NSA Wiretap	(0)	(18)
12. Twitter	(0) 17	13. Search Engines (0) (16)

Top 10

19 Undergrad Surveys {Fall 2010}

1. World Wide Web	14 (117)
2. Search Engines	15 (108)
3. ARPANET	12 (95)
4. Email	13 (80)
5. TCP/IP	7 (52)
6. DNS/ Name Server	6 (34)
7. P2P (Napster)	6 (29)
8. Browser (Mosaic)	5 (25)
9. Social Networks	6 (24)
10. WiFi/wireless	3 (18)

Top 10

6 Grad Surveys {Fall 2014}

1. ARPANET	2 (32)
2. WWW	1 (31)
3. TCP and IP Split	0 (30)
4. Ethernet	0 (23)
5. Email	0 (20)
6. Packet Switching	1 (19)
7. DNS	0 (16)
8. NSFNET	0 (12)
8. IPv6	0 (12)
10. Dial Up	1 (10)
10. Sputnik	1 (10)

Step 1: Top 25 Chronological

No.	Years	Milestone	Type
1	1961	Kleinrock's packet switching dissertation	Tech
2	1969-72	Demonstration of ARPANET/first transmission	Tech
3	1972	network email	App
4	1973-78	Ethernet	Tech
5	1974-78	TCP introduced then split into TCP/IP	Tech
6	1983	cutover from NCP to TCP/IP	Tech
7	1983	Name servers/ DNS	Tool
8	1988	Morris worm	Attack
9	1990-92	ARPANET ceases/NSFNET commercialization (Internet)	Policy
10	1992	WWW	APP
11	1993	evolution to MOSIAC (first browser)	Tool
12	1993	Doom Game	APP
13	1995	Java	Tool
14	1995	Amazon (Ecommerce)	APP
15	1996	eBay	APP
16	1997-99	802.11 wireless standard/802.11b	Tech
17	1998	Google (Archie)	APP
18	1999	Abilene/ Internet2	Tech
19	1999	Napster	APP
20	2000	Massive denial-of-service attack	Attack
21	2003	Slammer Worm	Attack
22	2004	Facebook	APP
23	2005	YouTube	APP
24	2006	Cellular 3G (CDMA/EVDO)	Tech
25	2007	Iphone (smartphones)	APP
26	2006	Twitter	APP

Step 2: Top 14 Chronological

No.	Years	Milestone
1	1969-72	Demonstration of ARPANET/first transmission
2	1972	network email
3	1973-78	Ethernet
4	1974-78	TCP introduced then split into TCP/IP
5	1990-92	ARPANET ceases/commercialization to (Internet)
6	1992	WWW
7	1993	MOSIAC (first browser)
8	1990's	Fiber optic networks
9	1998	Google (successful search engine)
10	1997-99	802.11b (serious wireless)
11	2000	Massive denial-of-service attack
12	2004	Facebook (social networks)
13	2005	YouTube (video streaming) → Netflix today
14	2007	Iphone (smartphones)

Top 12 (rek)

1. World Wide Web [1992]
2. TCP and IP protocol [1978]
3. Mosaic browser [1993]
4. Commercialization to Internet / ECommerce [1992]
5. Email [1972]
- 6a. 802.11b wireless protocol [1999] 6b. Iphone [2007]
7. ARPANET demonstration [1972]
8. Search Engines [1998]
9. Social Networks [2004]
- 10a. Ethernet [1978] 10b. Fiber optic cables [1990's]
11. Massive video streaming [2005]
12. Massive Denial-of-Service [2000]

Top 10

3 Grad Surveys {Fall 2013}

1. TCP	0 (17) [2]
2. Email	0 (16) [3]
3. Search Engines	1 (15) [2]
4. WWW	0 (14) [2]
5. ARPANET	1 (10)
6. First Connection	1 (10)
7. AOL	0 (8)
8. TCP and IP Split	0 (8)
9. Packet Radio (Wireless)	0 (7)
10. Browser	0 (7)
11. Emoticon	0 (7)

Top 10

25 Grad Surveys {Spring 2013}

1. Search Engines	2 (97)
2. Email	2 (94)
3. ARPANET	7 (80)
4. Browser (Mosaic)	1 (66)
5. Internet Commercialized	0 (63)
6. TCP/IP	0 (54)
7. Social Networks	0 (53)
8. First Packet	2 (50)
9. WWW	0 (49)
10. WiFi/wireless	1 (47)
11. DNS/ Name Server	0 (41)
12. a. SmartPhone b. YouTube	0 (20)

Top 10

31 Grad Surveys {Spring 2012}

1. ARPANET	17 (241)
2. TCP/IP	4 (189)
3. World Wide Web	0 (134)
4. Email	1 (124)
5. Search Engines	1 (81)
6. DNS/ Name Server	0 (63)
7. Browser (Mosaic)	0 (57)
8. WiFi/wireless	2 (55)
9. Dial up availability	0 (54)
10. Social Networks	0 (49)
11. Internet Commercialized	0 (38)
12. DoS/Viruses Introduced	0 (37)