

ARPANET, 1972

HOSTS ARE NUMBERED 2-15
AND ARE DESIGNATED AS:

L LOCAL <-- IF TACO
D DISTANT <-- IF TACO

V VDH

T TIP

H HDH

1
VDH/HDH

516

316

316

C38

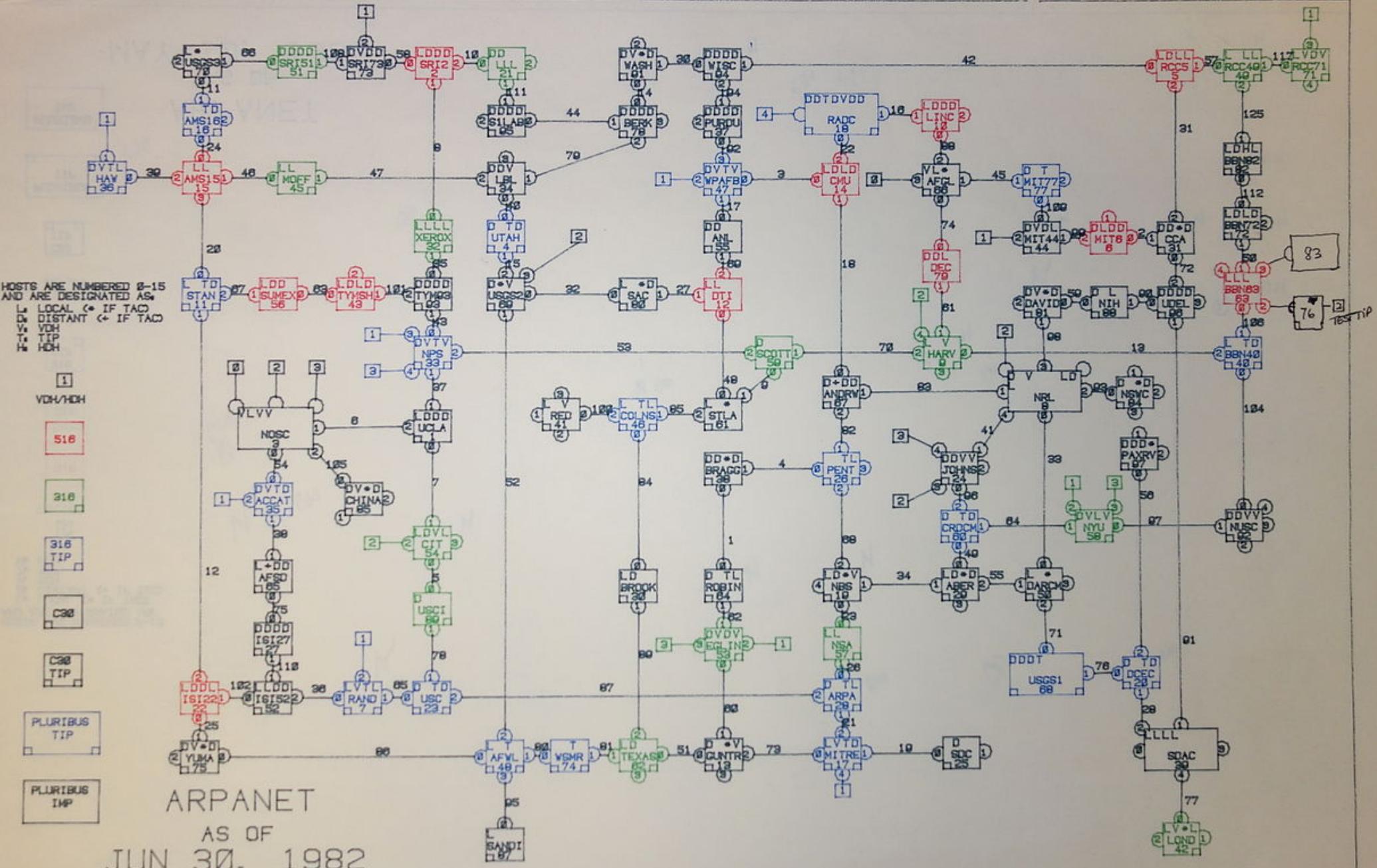
C38

PLURIBUS
TIP

PLURIBUS
IMP

ARPA NET

AS OF
JUN 30, 1982



Internet Use 1990



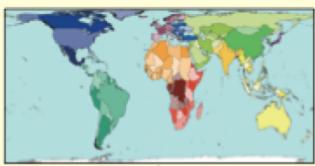
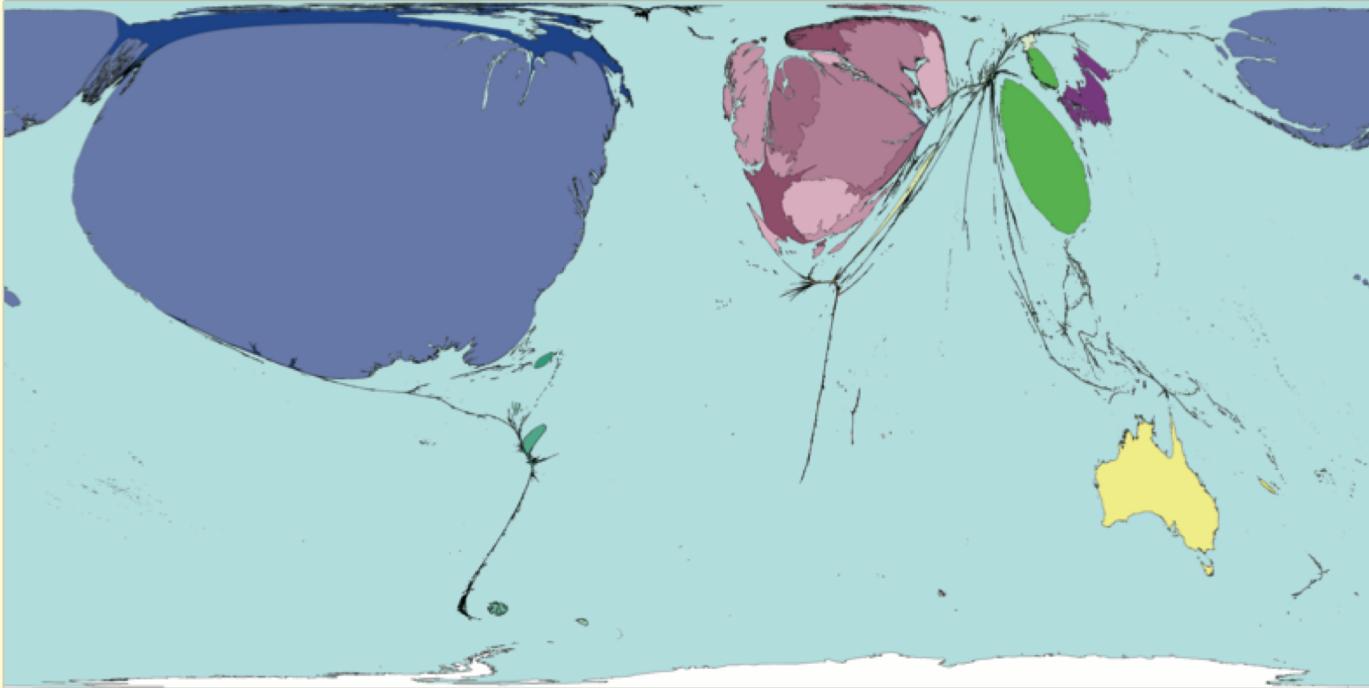
The
University
Of
Sheffield.



The Leverhulme Trust



Produced by the SASI group (Sheffield) and Mark Newman (Michigan)



Technical notes

- Data are from the United Nations Development Programme's 2004 Human Development Report.
- *Only 19 territories recorded Internet users in 1990. Belgium reported no known rate, but a low level. Territories with estimated data not shown in the table. Where Internet access is known to exist but no data were reported, estimates were made.
- Internet users have access to and use the Internet.
- See website for further information.

INTERNET USE IN 1990: ALL TERRITORIES REPORTING RATES

Rank	Territory	Value	Rank	Territory	Value
1	United States	8.0	12	Austria	1.3
2	Norway	7.1	17	Israel	1.1
3	Australia	5.9	18	Denmark	1.0
4	Switzerland	5.8	20	United Kingdom	0.9
4	Sweden	5.8	22	France	0.5
7	Finland	4.0	30	Republic of Korea	0.2
8	Canada	3.7	30	Japan	0.2
9	Netherlands	3.3	30	Italy	0.2
10	Germany	1.4	34	Spain	0.1

internet users per 1000 people in 1990*

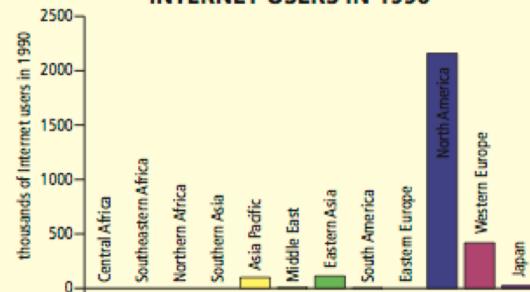
In 1990 the Internet had existed for only 7 years; just 3 million people had access to it worldwide. 73% of these people were living in the United States, 15% were in Western Europe.

Internet users in 1990 were recorded in just a few other territories. Outside Western Europe and the United States, most users lived in Canada, followed by Australia, then Japan, the Republic of Korea and Israel. In 1990 there was practically no access elsewhere.

Switzerland is home to the European Organisation for Nuclear Research (CERN) where the World Wide Web was developed. In 1990, 5.8 people per thousand in Switzerland used the Internet.

Territory size shows the proportion of worldwide Internet users who lived there in 1990.

INTERNET USERS IN 1990



"I sit down comfortably in the university's modern computer lab and take advantage of the technology available to enter the digital world. The digital world!"

Gabriela Tôrres Barbosa, 2006

NCSA Mosaic for MS Windows

File Edit Options Navigate Hotlist Annotate Help

Document Title: NCSA Mosaic Home Page

Document URL: <http://www.ncsa.uiuc.edu/SDG/Software/Mosaic/NCSAMosaicHome.html>



Welcome to NCSA Mosaic, an Internet information browser and World Wide Web client. NCSA Mosaic was developed at the National Center for Supercomputing Applications at the University of Illinois in Urbana-Champaign. NCSA Mosaic software is copyrighted by The Board of Trustees of the University of Illinois (UI), and ownership remains with the UI.

Jan '97

The Software Development Group at NCSA has worked on NCSA Mosaic for nearly four years and we've learned a lot in the process. We are honored that we were able to help bring this technology to the masses and appreciated all the support and feedback we have received in return. However, the time has come for us to concentrate our limited resources in other areas of interest and development on Mosaic is complete.

All information about the Mosaic project is available from the homepages.

NCSA Mosaic Platforms:

- [NCSA Mosaic for the X Window System](#)
- [NCSA Mosaic for the Apple Macintosh](#)
- [NCSA Mosaic for Microsoft Windows](#)

World Wide Web Resources The following resources are available to help introduce you to cyberspace and keep track of its growth:

- A [glossary](#) of World Wide Web terms and acronyms
- An [INDEX](#) to Mosaic related documents
- [NCSA Mosaic Access Page](#) for persons with disabilities
- [Mosaic and WWW related Tutorials](#)
- [Internet Resources Meta-Index at NCSA](#)

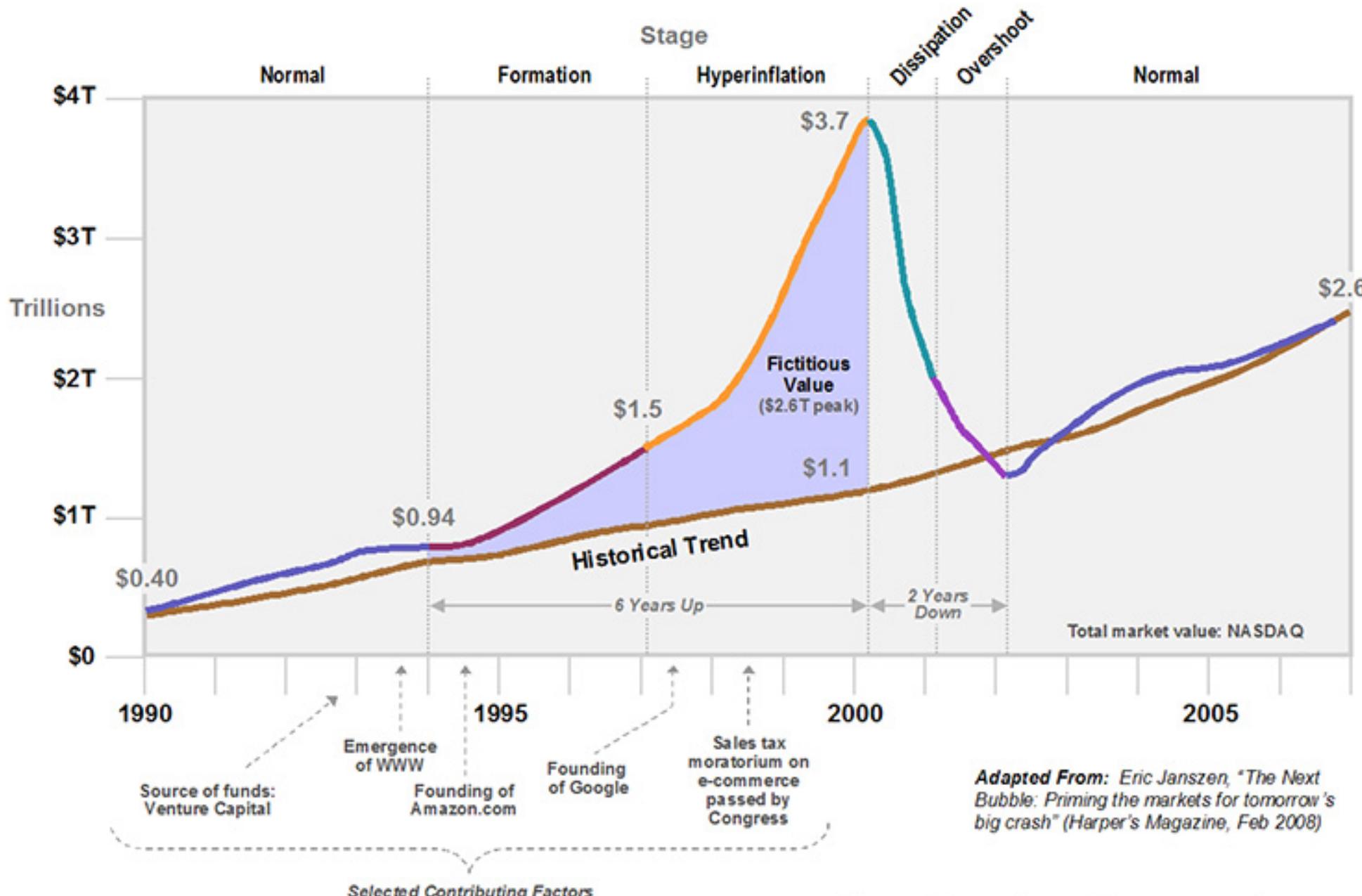
NUM

The Rise and Fall

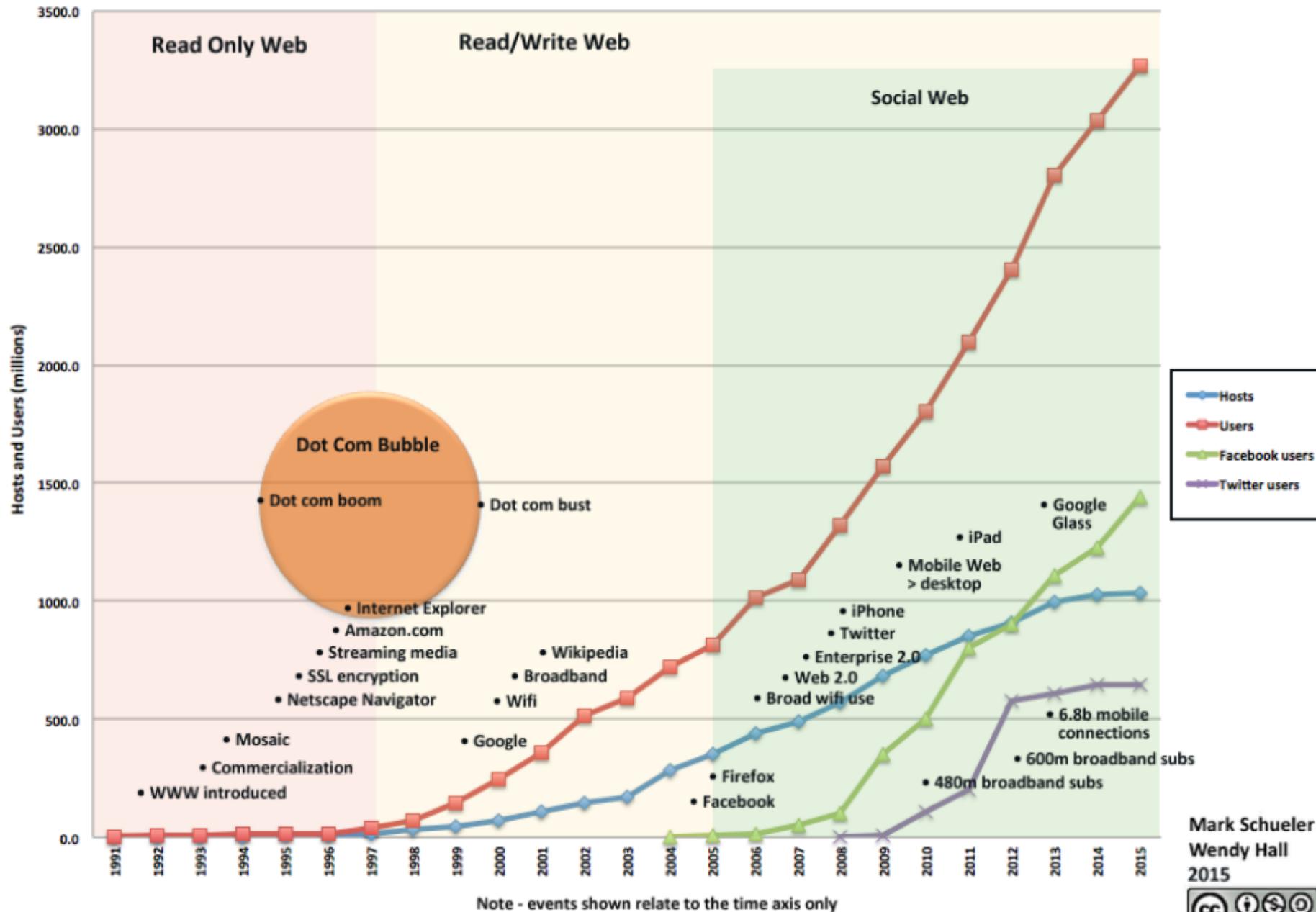
The Nasdaq Composite Index, daily close



Dot.com Technology Bubble: 1994-2002

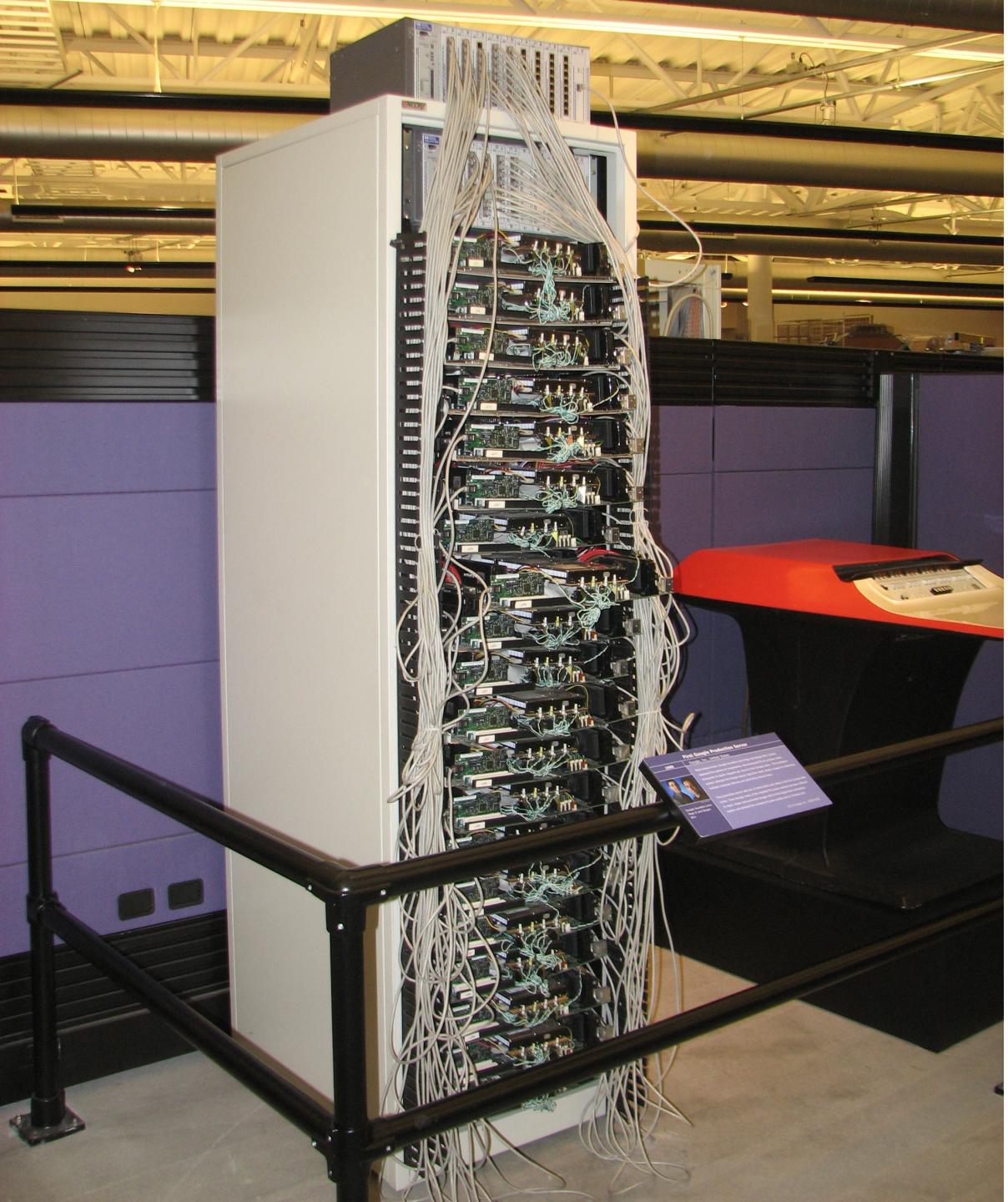


Internet Growth - Usage Phases - Tech Events



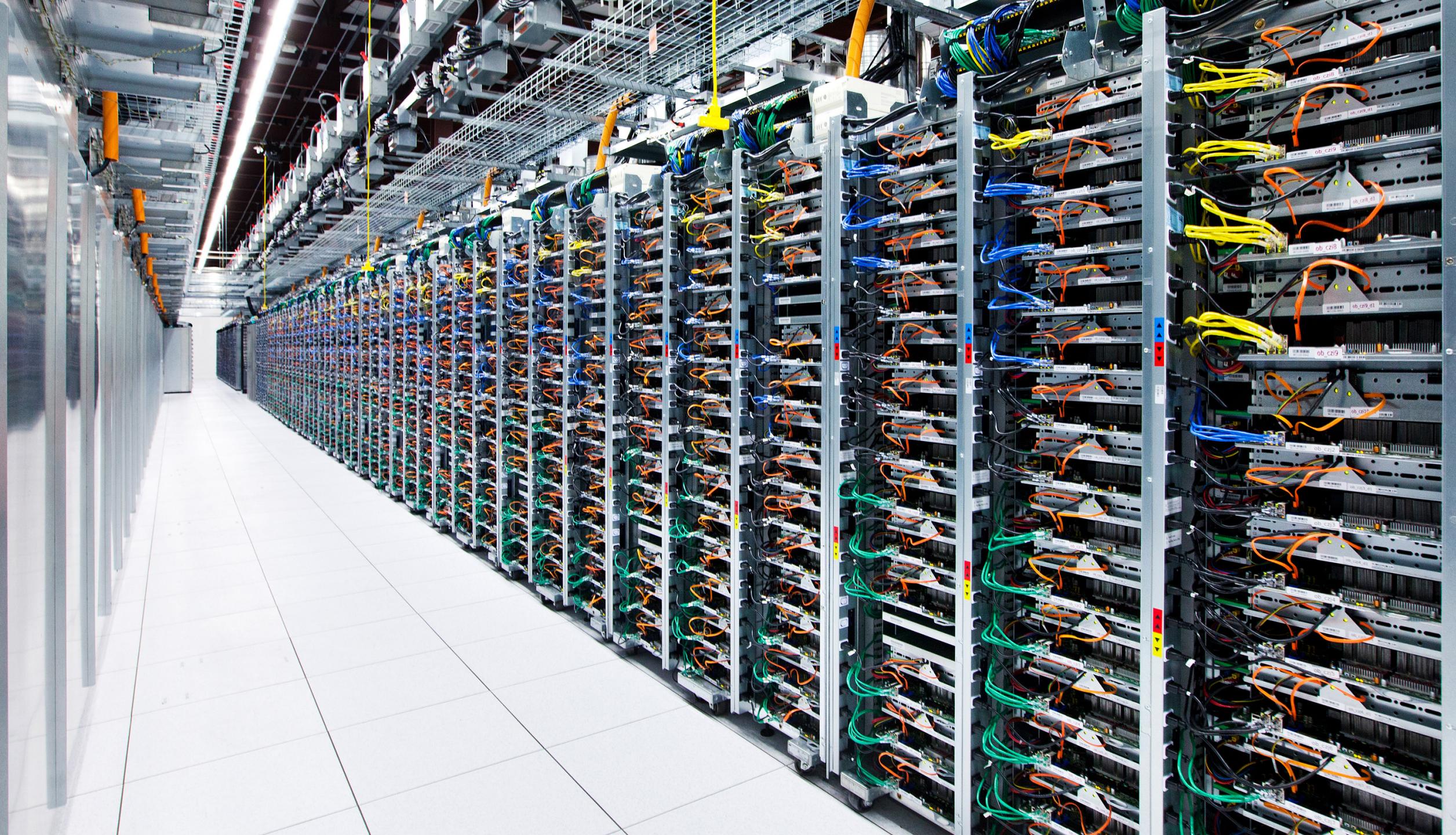
Mark Schueler
Wendy Hall
2015



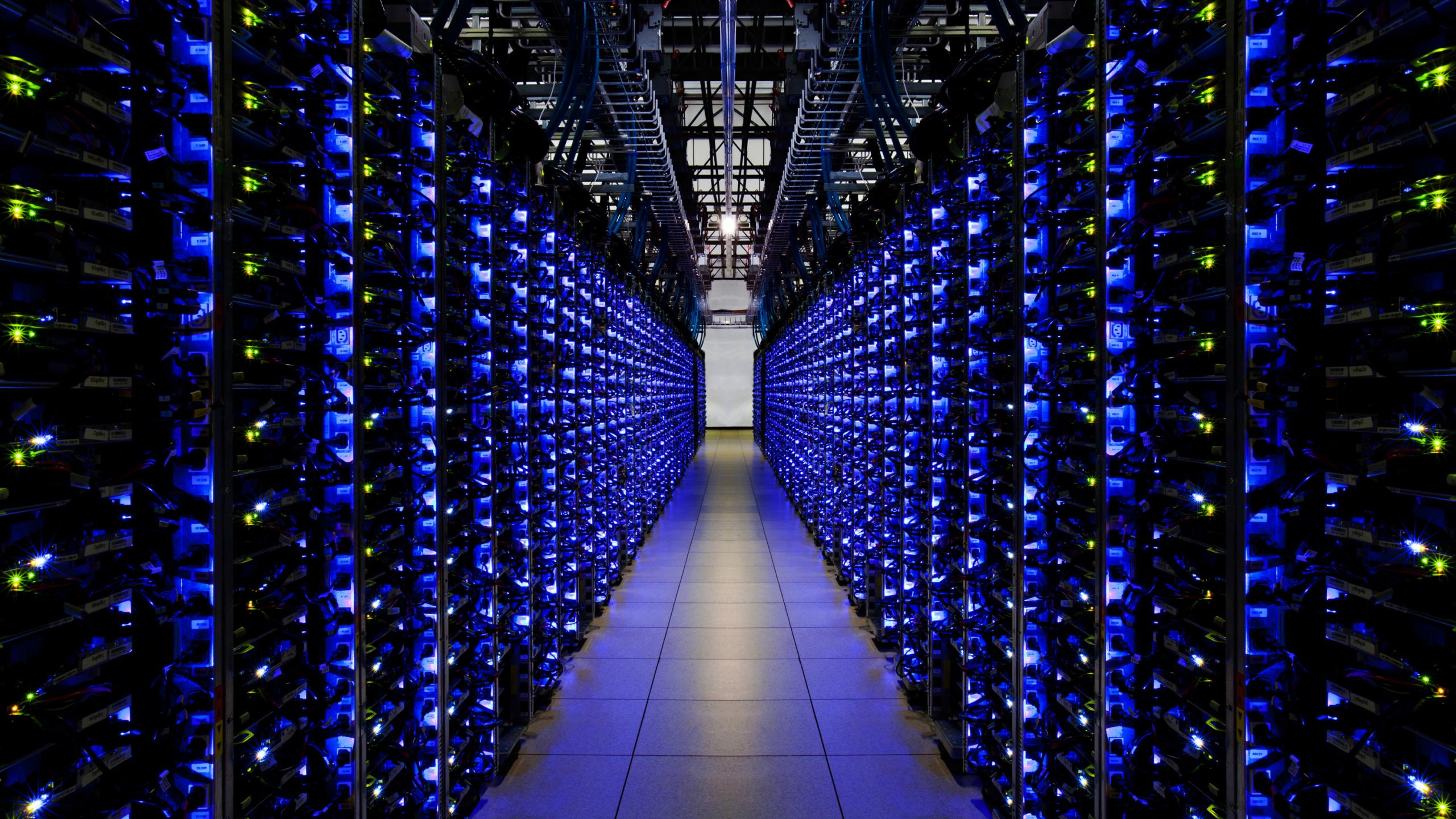


Google's first server, 1999

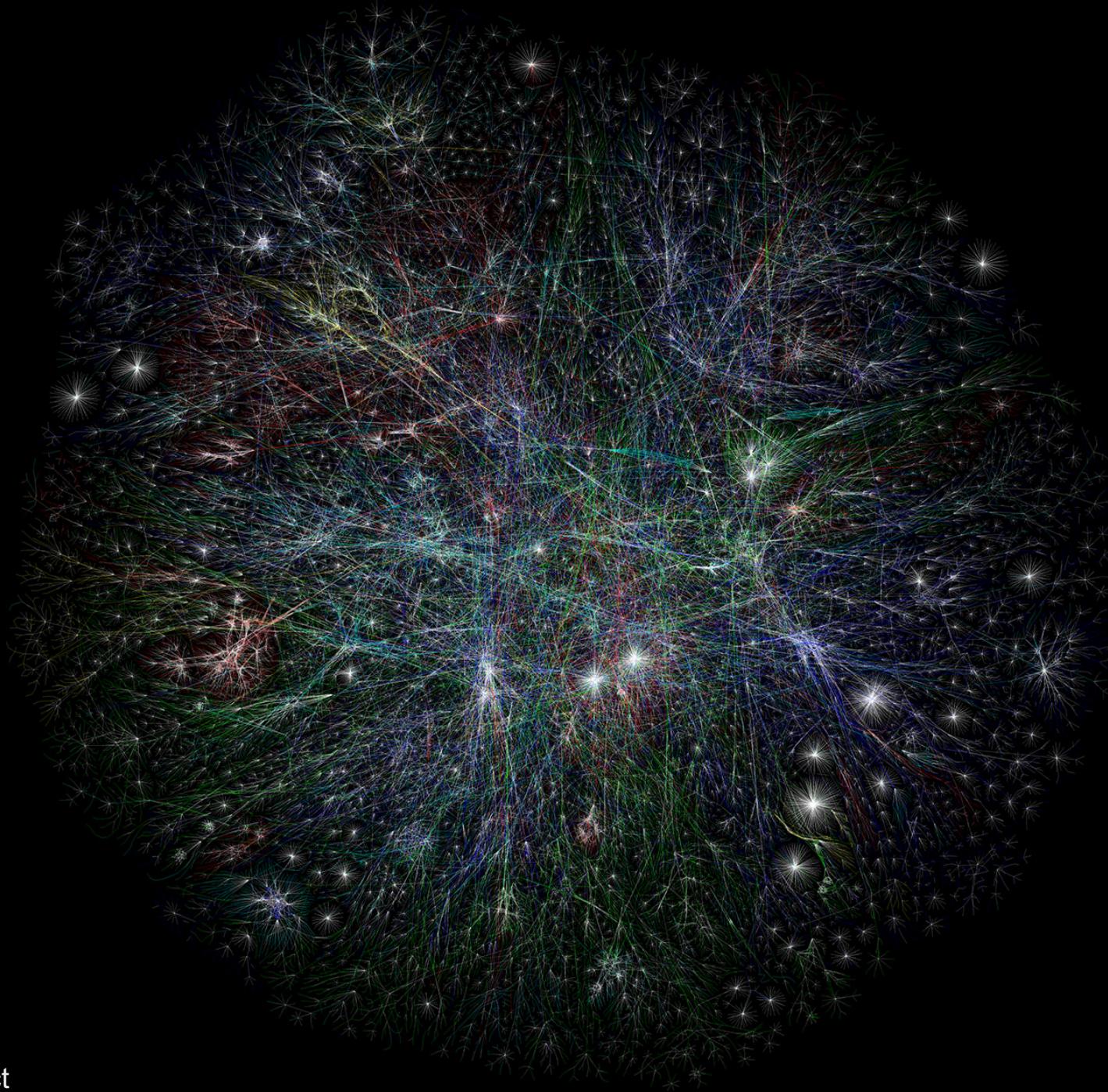
Computer History Museum,
Mountain View, California











Barrett Lyon / The Opte Project

TCP/IP

TCP: Transmission Control Protocol

IP: Internet Protocol

IP Address

e.g.,

IPv4:

99.176.29.172

IPv6:

2602:306:3b01:dac0:110a:1555:9a19:7de4

← Settings

— □ ×



ETHERNET

Allow your PC to be discoverable by other PCs and devices on this network. We recommend turning this on for private networks at home or work, but turning it off for public networks to help keep your stuff safe.



On

Properties

IPv4 address: 192.168.1.116

IPv4 DNS Servers: 209.81.96.30

209.81.96.49

192.168.1.1

Manufacturer: Realtek

< Settings

Wi-Fi

Wi-Fi



✓ IDG2

CHOOSE A NETWORK...

Other...

Ask to Join Networks

Known networks will be joined automatically. If no known networks are available, you will have to manually select a network.

< Wi-Fi

IDG2

Join Network

Forget This Network

IP ADDRESS

DHCP

BootP

Static

IP Address

192.168.1.66

Subnet Mask

255.255.255.0

Router

192.168.1.1

DNS

192.168.1.1

Search Domains

Private IP Addresses

RFC1918 name	IP address range	number of addresses	largest CIDR block (subnet mask)	host id size	mask bits	<i>classful</i> description [Note 1]
24-bit block	10.0.0.0 – 10.255.255.255	16,777,216	10.0.0.0/8 (255.0.0.0)	24 bits	8 bits	single class A network
20-bit block	172.16.0.0 – 172.31.255.255	1,048,576	172.16.0.0/12 (255.240.0.0)	20 bits	12 bits	16 contiguous class B networks
16-bit block	192.168.0.0 – 192.168.255.255	65,536	192.168.0.0/16 (255.255.0.0)	16 bits	16 bits	256 contiguous class C networks

Amazon AWS IPs

Region	IP address range
US East (Ohio) (us-east-2)	52.15.247.160/27
US East (N. Virginia) (us-east-1)	52.23.63.224/27
US West (Oregon) (us-west-2)	54.70.204.128/27
EU (Ireland) (eu-west-1)	52.210.255.224/27
Asia Pacific (Singapore)	13.229.254.0/27
Asia Pacific (Sydney)	54.153.249.96/27
Asia Pacific (Tokyo)	13.113.244.32/27

Google Cloud Platform

<https://gist.github.com/n0531m/f3714f6ad6ef738a3b0a>

Microsoft Azure

<https://www.microsoft.com/en-us/download/details.aspx?id=41653>