

INTERNET PRODUCTS

1986

Multi-Protocol Router

Cisco ships its first product, a router for the TCP/IP (Transmission Control Protocol/Internet Protocol) protocol suite. Cisco thus becomes the first company to commercially provide a multi-protocol router.

1989

Microsoft earliest version of Office

Microsoft introduces earliest version of Office suite of productivity applications. Microsoft makes a program that is compatible with IBM computers.

Instant Messenger chat

AOL launches its Instant Messenger chat service and begins welcoming users with the iconic greeting "You've got mail!"

1994

GeoCities

Web hosting service GeoCities launches.

1995

HotMail

HotMail launches as one of the world's first Webmail services, its name a reference to the HTML internet language used to build webpages.

MSN launched

MSN is a web portal and related collection of Internet services and apps for Windows and mobile devices.

1996

Nokia 9000 Communicator

Nokia introduced a phone that had internet capabilities. This started a revolution of devices that were small portable computers. **Nokia 9000 Communicator**. Nokia releases the Nokia 9000 Communicator, the first cellphone with internet capabilities.

1998

PAYPAL

PayPal was developed and *launched* as a money transfer service.

1999

Craig Newmark Finds Craigslist

Craig Newmark founds Craigslist, which is to become one of the most widely used websites on the Internet.

Napster: the day the music was set free

Napster popularizes music file-sharing and spawns successors that have permanently changed the recording industry . **MP3** downloading service Napster launches, overloading high-speed networks in college dormitories. Many colleges ban the service and it is later shut down for enabling the illegal sharing of music files.

AOL buys Netscape.

Peer-to-peer file sharing becomes a reality as Napster arrives on the Internet, much to the displeasure of the music industry.

2000

Aaron Swartz Co-Creates RSS

Aaron Swartz co-creates RSS, a program that collects news from various web pages and puts them in one place for readers, with the goal of making information freely available to everyone.

2001

Wikipedia is created

Jimmy Wales launched Wikipedia. Users write over 20.000 encyclopaedia entries in the first year.

Google Images

Google opened a new facet of the company with Google Images. It allowed users to search for pictures, and had over 250 million images to offer.

2002

Microsoft launched XBOX live

Its online multiplayer gaming service. Critics scoffed at the idea, nothing now uncommon broadband connections were at the time.

2003

Skype

A voice-over-IP calling and instant messaging service, launched and quickly became a verb, as in "Skype me"

ITUNES

Apple launched the **ITUNES** music store. With 200,000 songs at 99 cents each. The store sells one million songs its first week

WordPress blog publishing system is created.

2004

World of warcraft launches

Massively multiplayer online role-playing game (MMORPG)

Gmail launches --- It was announced to the public by Google on 1 April 2004, after extensive rumors of its existence during testing.

Mozilla releases **Firefox 1.0**.

2007

Apple iPhone (mobile web) Apple Inc. releases iPhone, introducing millions more to wireless Internet access.

2008

Google releases the Chrome Web browser

Deal-of-the-day website **Groupon launches**

Apple launches its **App Store with 552 applications**.

2011

Google+ launches.

Snapchat was launched.

2015

Windows 10

Microsoft releases the operating system Windows 10.

2016

Voice-activated personal assistant

Google unveils Google Assistant, a voice-activated personal assistant program, marking the entry of the Internet giant into the "smart" computerized assistant marketplace. Google joins Amazon's Alexa, Siri from Apple, and Cortana from Microsoft

2017

Cisco Umbrella

Cisco premieres a cloud-based secure internet gateway to tackle cloud and mobile security risks. The offering, Cisco Umbrella, is tailored to provide safe internet access to users who don't use their corporate networks or VPNs to connect to remote data centers.

TIKTOK was launched by ByteDance in China.

TECHNOLOGIES

1945

Algorithmic Programming Language

Plan Calculus, the first algorithmic programming language created to the theoretical preconditions for the solution of general problems.

1953

IBM

International Business Machines came out with their first computer machine.

1973

Language to communicate between networks

TCPIP or Transmission Control Protocol and the Internet Protocol was developed by Robert Kahn and Vinton Cerf at Arpanet. In the 1980s it was to become the common 'language' of the internet.

1981

MS-DOS 1.0

IBM introduces its personal computer with Microsoft's 16-bit operating system, MS-DOS 1.0.

1983

GPS opened

The GPS was opened for use by civilian aircraft.

1983

IPv4 launched (Global)

IPv4 was launched for production in the ARPANET.

1984

T1 lines

MCI creates T1 lines to allow for faster transportation of information over the internet.

1986

NSF launches NSFNET

The new NSFNET could send data at 56 kilobits per second kbps and connected supercomputing centres at Princeton University and Cornell University.

1988

ARPANET

The program ARPANET (the earliest version of the Internet) was launched.

VR first Implement

The Cyberspace Project at Autodesk was the first to implement VR on a low-cost personal computer

1989

World Wide Web

Tim Berners-Lee invented the World Wide Web

1990

T3 line

Advanced Network & Services (ANS) develops the T3 line, and installs in on a number of networks, forms to research new ways to make internet speeds even faster.

The first web browser

Berners-Lee had built all the tools necessary for a working Web: HTML, HTTP, and wrote the first web browser in 1990 while employed at CERN near Geneva, Switzerland.

First online payment systems

Online internet banking services were offered to bank customers, users had to have specific encryption knowledge and use data transfer protocols.

1992

Earliest AR system

The earliest functional AR systems that provided immersive mixed reality experiences for users were invented.

1997

WiFi released (Global)

The first version of the WiFi 802.11 protocol was released.

1998

IPv6 introduced (Global)

IPv6 became a Draft Standard for the IETF and uses a 128-bit address, theoretically allowing 2^{128} , or approximately 3.4×10^{38} addresses

1998

The Google search engine

Was born, changing the way users engage with the Internet.

1999

"IoT" was coined

The term "Internet of things" was likely coined by Kevin Ashton of Procter & Gamble, later MIT's Auto-ID Center, in 1999

2006 (Global)

100 Gbps capacity gain

Internet2 announced a partnership with Level 3 Communications to launch a brand new nationwide network, boosting its capacity from 10Gbps to 100Gbps

2008

Blockchain was invented

Blockchain was invented by a person (or group of people) using the name Satoshi Nakamoto in 2008 to serve as the public transaction ledger of the cryptocurrency bitcoin

COMPANIES

1975

Microsoft is born

Bill Gates worked with Paul Allen to develop BASIC for the Altair 8800.

1976

Apple Computers, Inc.

Founded in 1976, by college dropouts Steve Jobs and Steve Wozniak, who brought to the new company a vision of changing the way people viewed computers.

1994

YAHOO! Launches

Yahoo! is created by Stanford University graduate students Jerry Yang and David Filo. They originally named the site "Jerry and David's Guide to the World Wide Web."

Pizza Hut starts accepting online food ordering

One of the first known Web purchases takes place: a pepperoni pizza with mushrooms and extra cheese from Pizza Hut.

1995

Amazon.com

Opens its virtual doors. Billing itself as the "Earth's Biggest Bookstore."

Match.com

The first online dating site, launches.

EBAY launches

The online auction website was founded as AuctionWeb in San Jose, California, on September 3, 1995, by French-born Iranian computer programmer Pierre Omidyar.

1997

Netflix

Netflix launches as a company that sends DVDs to homes via mail.

Go Daddy

Go Daddy launches as Jomax Technologies.

A website called "Google" was registered

Google.com registers as a domain.

1999

Alibaba Was founded.

2002

Friendster.com

Social networking site Friendster.com launches but is quickly overtaken by Facebook.

2003

LinkedIn

Professional networking site LinkedIn launches.

MySpace.com

Founded and quickly adopted by musicians seeking to share music and build their fan bases

2004

Facebook

Mark Zuckerberg starts Facebook as a sophomore at Harvard University. 1,200 Harvard students sign up within the first 24 hours. Facebook goes on to become the world's biggest social networking site, with over a billion users worldwide.

Digg

Social news website Digg launches. Digg users vote to "dig up" links that they like and "bury" down those they don't.

2005

YouTube

Founded on Valentine's Day. The first video, an explanation of what's cool about elephants, is uploaded by co-founder Jawed Karim on April 23. Google acquires the company a year later

Reddit

Community news site Reddit is founded. It is bought by Conde Nast a year later for \$ 20 million.

Rupert Murdoch's **News Corp.** buys MySpace for \$580 million and sells it in 2011 for \$35 million.

2006

Twitter launches

Founder Jack Dorsey send the first tweet: "just setting up my twttr"



Spotify

Founded as a media-services provider.

Google acquires YouTube for \$1.65 billion. YouTube founders Chad and Steve announce the Google acquisition in a video recorded in a parking lot: "The king of search and the king of video have gotten together."

2008

AIRBNB

Launched as an online marketplace for arranging or offering lodging, primarily homestays, or tourism experiences.

2009

UBER

An American multinational ridesharing company offering services that include peer-to-peer ridesharing, ride service hailing, food delivery, and a bicycle-sharing system.

2010

Social photo-sharing sites **Pinterest** and

Instagram launch.

2011

Microsoft buys Skype for \$8.5 billion.

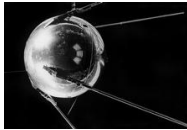
2014

Facebook buys messaging app **WhatsApp** for \$19 billion.

EVENTS

1957

Sputnik



The Soviet Union launches the first artificial earth satellite Sputnik.

1958

Modem

Bell Lab invents Modem which converts digital to analog signals and back, enabling communication between computers.

ARPA

The United States government creates the Advanced Research Projects Agency (ARPA) in response to Sputnik launch.

1961

Packet-Switching



Leonard Kleinrock pioneers the packet-switching concept in his MIT doctoral thesis about Information Flow in Large Communication Nets.

1965

Wide-area Network

Lawrence Roberts (MIT) & Thomas Marill get an ARPA contract to create the first wide-area network (WAN) connection.

1967

ARPANet Design Begins



Lawrence leads ARPANet design discussions & publishes first ARPANet design paper.

1968

ARPANet Host Level Protocols

Steve Crocker heads UCLA Network Working Group to develop host level protocols for ARPANet communication in preparation for becoming the first node.

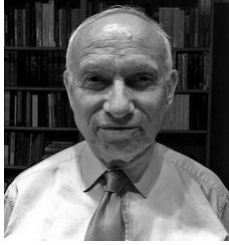
1969

First Data Packets

First data packets are sent between networked computers at UCLA, the first attempt resulted in the system crashing as the letter G of "Login" was entered.

1970

European ARPANet



Professor Peter Kirstein of UCL starts the first European ARPAnet node with transatlantic IP connectivity.

1972

Email invents



Ray Tomlinson of BBN invents the email program to send messages across a distributed network. The "@" sign is chosen to separate local from global emails, making "user@host" the email standard.

First Internet Address Registry

Which later becomes Internet Assigned Numbers Authority (IANA). This administers IP addresses and other critical Internet functions.

1974

Term 'Internet' coined

Vint Cerf and Robert Kahn publish "A Protocol for Packet Network Interconnection" which specifies in detail the design of a Transmission Control Program (TCP) and coins the term "Internet" for the first time.

1977

Computer Science Network

Lawrence Landweber creates CSNET (Computer Science Network), a network for all US university and industrial computer research groups.

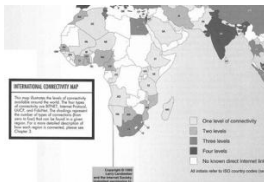
1980

Early Networks in Developing Countries



Mike Jensen begins building some of the earliest networks to connect the nonprofit sector.

First U.S.- Europe Network Gateways Forges



Lawrence Landweber establishes the first network gateways between the U.S. and European countries.

1982

Asia Connects to Internet

Kilnam Chon develops the first Internet connection in Asia, called SDN.

1983

Domain Name System

Paul Mockapetris expands the Internet beyond its academic origins by inventing the DNS. John Klensin helps facilitate early procedural and definitional work for DNS administration and top-level domain definitions.

1984

First Email sent

The very first email arrives in Germany from the U.S. "Willkommen CSNET," it says.

1986

Modern Email Routing System

Craig Partridge designs how email is routed using domain names.

1988

First Internet Exchange Point

Dr. Glenn Ricart sets up the first Internet Exchange point, connecting the original federal TCP/IP networks and first U.S. commercial and non-commercial Internet networks.

1991

World Wide Web Opens to Public

The World Wide Web is made available to the public for the first time on the Internet.

1992

Internet Society

Vint Cerf and Robert Kahn found the Internet Society. Meanwhile, hosts on the Internet pass the one million mark.

1993

NCSA Releases Mosaic Browser

Which helps popularize the World Wide Web among the general public.

The New York Times writes about the web

The New York Times writes about the Web browser Mosaic and the World Wide Web for the first time. "Think of it as a map to the buried treasures of the Information Age."

1994

First Direct TCP/IP Connection in Mainland China

Madam Qiheng Hu leads a delegation to the US for discussions with the National Science Foundation, which facilitates the setting up the first direct TCP/IP connection in mainland China.

1995

The Vatican comes online



www.vatican.va

1996

Brewster Kahle Founds Internet Archive;

Brewster Kahle founds the Internet Archive, a free digital library with a mission to provide “universal access to all knowledge.” creates a history of the Internet’s formation.

Email Surpasses Postal Mail

There is more email than postal mail in the U.S.

1998

Blogs First Appear

The advent of web publishing tools available to non-technical users spurs the rise of blogs.

2000

The dot-com boom

The dot-com bubble bursts. Web sites such as Yahoo! and eBay are hit by a large-scale denial of service attack, highlighting the vulnerability of the Internet. AOL merges with Time Warner

Advertising on the web

Companies had been using web advertising for a few years, but Google revamped their AdWords offering with a new advertising idea. They incorporated a cost-per-click pricing that allowed companies to earn money every time someone clicked an ad.

2003

The SQL Slammer worm

It spread worldwide in just 10 minutes. Myspace, Skype and the Safari Web browser debut.

WordPress

The blog publishing platform WordPress is launched.

2004

Google on NASDAQ

starts trading on the NASDAQ at \$85 a share.

2007

World's Longest WiFi Record

Ermanno Pietrosemoli secures the world record for the longest WiFi connection at 382 km.

2009

40th anniversary

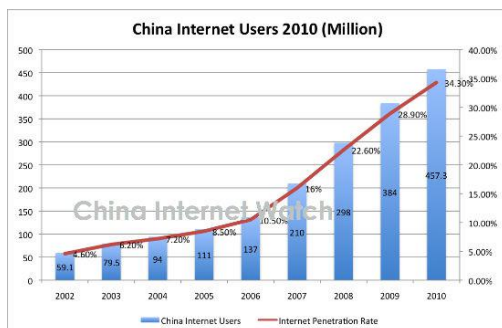
The Internet marks its 40th anniversary.

Twitter values 1 Billion

Twitter raises \$98 million from investors, valuing the company at a whopping \$1 billion.

2010

China Dominates Internet Usage



By 2010, there are over 450 million Chinese Internet users.

2011

Royal Wedding

Live streaming of Will and Kate's wedding is the biggest event ever watched on the Internet, Number of Internet users reaches 2 Billion.

2012

"Gangnam Style"

"Gangnam Style" becomes the first YouTube video to reach 1 billion views.

Facebook buys Instagram

Facebook reaches 1 billion monthly active users, making it the dominant social network worldwide. Some analysts start calling it "Facebookistan." The company buys Instagram for \$1 billion and debuts on NASDAQ at \$38 a share.

2013

1 billion

The number of Internet hosts surpass 1 billion.

2014

Domain sale over 1 Million

mm.com (1.2M), sex.xxx (3M), medicare.com (4.8M), mi.com (3.6M), 37.com (1.96M), youxi.com (2.43M), whisky.com (3.1M).

2015

Searches from Mobiles

Out of 100 billion monthly Google searches, those from mobile devices surpass desktops for the first time.

Instagram outpacing Twitter

Instagram, the photo-sharing site, reaches 400 million users, outpacing Twitter, which would go on to reach 316 million users by the middle of the same year.