Who invented the Internet?

A single person did not create the Internet that we know and use today. Below is a listing of different people who have helped contribute to and develop the Internet.

The idea

The initial idea of the Internet is credited to **Leonard Kleinrock** after he published his first paper entitled "Information Flow in Large Communication Nets" on May 31, 1961.

In 1962, J.C.R. Licklider became the first Director of IPTO and gave his vision of a galactic network. Also, with ideas from Licklider and Kleinrock, Robert Taylor helped create the idea of the network that later became ARPANET.

Initial creation

The Internet as we know it today first started being developed in the late 1960s in California in the United States.

In the summer of 1968, the NWG (Network Working Group) held its first meeting, chaired by **Elmer Shapiro**, at

the SRI (Stanford Research Institute).
Other attendees included **Steve Carr**, **Steve Crocker**, **Jeff Rulifson**, and **Ron Stoughton**. In the meeting, the group discussed solving issues related to getting hosts to communicate.

In December 1968, **Elmer Shapiro** with SRI released a report "A Study of Computer Network Design Parameters." Based on this and earlier work by **Paul Baran**, **Thomas Marill** and others, **Lawrence Roberts** and **Barry Wessler** created the IMP (Interface Message Processor) specifications. BBN (Bolt Beranek and Newman, Inc.) was later awarded the contract to design and build the IMP subnetwork.

General public learns about Internet

The UCLA (University of California, Los Angeles) put out a press release introducing the public to the Internet on July 3, 1969.

First network equipment

On August 29, 1969, the first network switch and the first piece of network equipment called "IMP" (Interface Message Processor) is sent to UCLA.

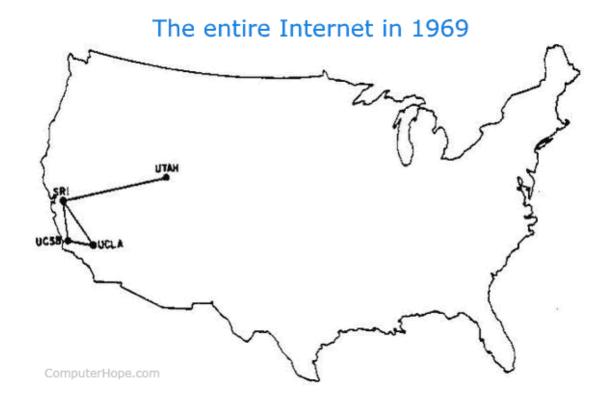
On September 2, 1969, the first data moves from the UCLA host to the switch. The picture is Leonard Kleinrock next to the IMP.

The first message and network crash

On Friday, October 29, 1969, at 10:30 p.m., the first Internet message was sent from the computer science Professor Leonard Kleinrock's laboratory at UCLA, to a computer at SRI. The connection not only enabled the first transmission to be made, but is also considered the first Internet backbone.

The first message to be distributed was LO, an attempt at LOGIN, by Charley S. Kline to log into the SRI computer from UCLA. However, the message was unable to be completed because the SRI system crashed. Shortly after the crash, the issue was resolved, and he was able to log into the computer.



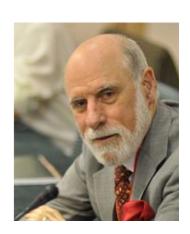


E-mail is developed

Ray Tomlinson sends the first network e-mail in 1971. It's the first messaging system to send messages across a network to other users.

TCP is developed

Vinton Cerf and Robert Kahn design
TCP during 1973 and later publish it with
the help of Yogen Dalal and Carl
Sunshine in RFC 675, published in
December 1974. Most people consider
these two people the inventors of the
Internet.



First commercial network

A commercial version of <u>ARPANET</u>, known as <u>Telenet</u>, is introduced in <u>1974</u> and considered to be the first <u>ISP</u> (Internet service provider).

Ethernet is conceived

Bob Metcalfe develops the idea of Ethernet in 1973.

The modem is introduced

Dennis Hayes and **Dale Heatherington** released the 80-103A modem in 1977. The modem and their subsequent modems become a popular choice for home users to connect to the Internet and get online.

TCP/IP is created

In 1978, TCP splits into TCP/IP, driven by Danny Cohen, David Reed, and John Shoch to support real-time traffic. The creation of TCP/IP help create UDP and is later standardized into ARPANET on January 1, 1983. Today, TCP/IP is still the primary protocol used on the Internet.

DNS is introduced

Paul Mockapetris and Jon Postel introduce DNS in 1984, which also introduces the domain name system. The

first Internet domain name, **symbolics.com**, is registered on March
15, <u>1985</u> by Symbolics, a Massachusetts
computer company.

First commercial dial-up ISP

The first commercial <u>ISP</u> (Internet service provider) in the US, known as "The World," is introduced in <u>1989</u>. The World was the first ISP to be used on what we now consider to be the Internet.

HTML

In 1990, while working at CERN, **Tim Berners-Lee** develops <u>HTML</u>, which made a huge contribution to how we navigate and view the Internet today.



The first website, **info.cern.ch**, is developed by Tim Berners-Lee at CERN and published online on August 6, 1991.

WWW

Tim Berners-Lee introduces <u>WWW</u>
(World Wide Web) to the public on
August 6, <u>1991</u>, and becomes publicly
available on August 23, 1991. The WWW
is what most people today consider the
"Internet" or a series of sites and pages

that are connected with links. The Internet had hundreds of people who helped develop the standards and technologies used today, but without the WWW, the Internet would not be as popular today.

First graphical Internet browser

Mosaic is the first widely-used graphical World Wide Web browser, released on April 22, 1993 by the NCSA with the help of Marc Andreessen and Eric Bina. A big competitor to Mosaic was Netscape, which was released a year later. Today's Internet browsers we use today (e.g., Internet Explorer, Chrome, Firefox, etc.), got their inspiration from the Mosaic browser.

Mosaic



ComputerHope.

Java and JavaScript

Originally known as **oak**, **Java** is a programming language developed by **James Gosling** and others at <u>Sun</u> Microsystems in <u>1995</u>. Today, Java is still used to create <u>Internet</u> applications and other <u>software</u> programs.

JavaScript was developed by Brendan

Eich in 1995 and originally known as

LiveScript. LiveScript was released with

Netscape Navigator 2.0 and renamed to

JavaScript with Netscape Navigator 2.0B3. JavaScript is an <u>interpreted</u> client-side scripting language that allows a web designer the ability to insert code into their web page.

Related Questions

That is a great overview, but who are the key inventors of the Internet?

If you had to isolate the key inventors of the Internet, it would have to be two people: Vinton Cerf and Robert Kahn.

The WWW, which is different from the Internet, but what most people think of as the "Internet," was invented later by Tim Berners-Lee.

I thought Al Gore invented the Internet

Al Gore coined the term information superhighway, but he did not invent the Internet.

Additional information

- Overall history of the Internet.
- See the Internet definition for further information and related links.
- Computer history questions and answers.
- Internet help and support.