

The Internet's History

"The Ultimate Idea of Communication"





Objectives for learning

Students learn what is history behind
the Internet

What is Internet?

The Internet is a network or system that connects millions of computers worldwide





Invention of the Internet

In the 1960s (Cold War), the United States government, businesses, and colleges collaborated to develop a system that would allow computers across the country to share information. In fact, the US military was concerned that a nuclear attack would destroy vital communications.

In 1969, Americans developed ARPANET, an early form of the Internet. Dozens of military computers were linked in a network. The military realised that the larger the network was, the more resist it would be. They encouraged big companies and universities to join the system.

Electronic mail, or e-mail, was invented in 1971 as a method of sending a message from one computer to another.

Invention of the Internet

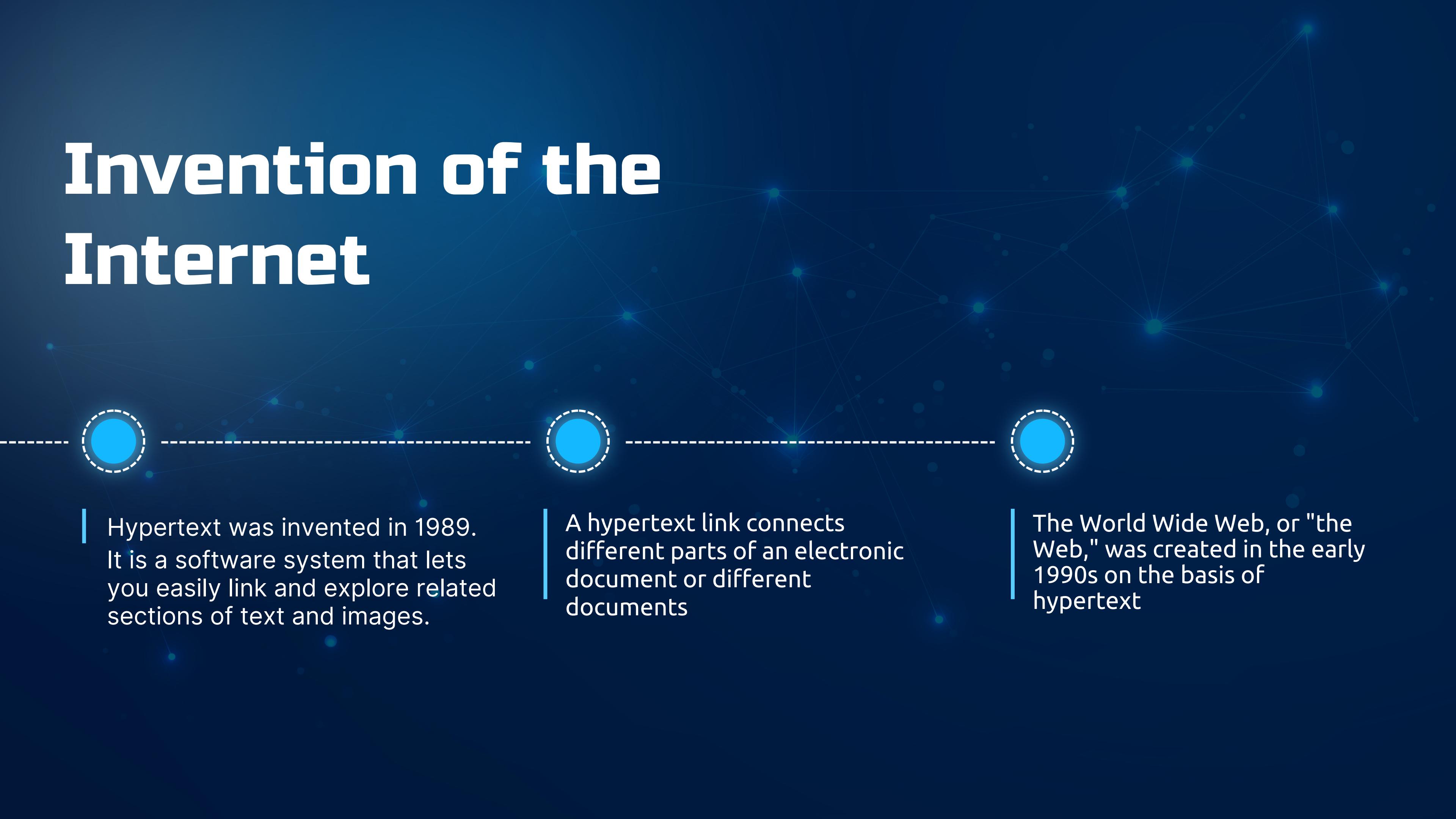


By the mid-1970s, many groups of computers had been linked together in networks

To connect the networks, machines known as routers were invented

This is how the first ARPANET evolved into the Internet

Invention of the Internet



Hypertext was invented in 1989. It is a software system that lets you easily link and explore related sections of text and images.

A hypertext link connects different parts of an electronic document or different documents

The World Wide Web, or "the Web," was created in the early 1990s on the basis of hypertext

World Wide Web

The most popular internet service

Websites are viewed using Internet browsers

Each website has its own Internet address, which is referred to as a uniform resource locator, or URL

The information on the Internet is organized into sites or pages

Websites are created using a programming language known as hypertext markup language (HTML)

Many URLs start with the letter "www," which stands for "World Wide Web"



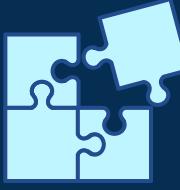
Electronic Mail (Email)



The sending and receiving of email is the second most common use of the internet

Email is a private communication medium that is sent from one user to another

Instant messaging (IM) is similar to email, but it allows two or more people to communicate much more quickly



How does the Internet work?

(Would you able to explain it?)

User Device (Computer, Phone, etc.)

- You type a web address (URL) into your browser (like www.google.com).

Browser

- The browser sends a request to find the website using DNS (Domain Name System).

DNS

- DNS translates the website address into an IP address (like a phone number for websites).

Internet Service Provider (ISP)

- Your ISP connects you to the internet and lead your request to the right server.

Web Server

- The server hosting the website receives your request and sends the website's data (text, images, etc.) back.

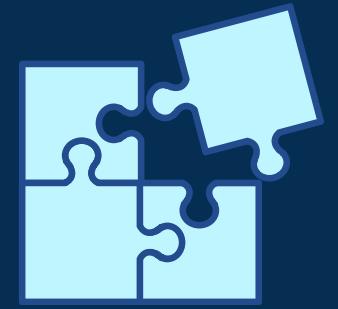
Data Transfer

- The data travels back through the internet to your device.

Display

- Your browser shows the website content on your screen.

It's like sending a letter to a server, which replies by sending back the requested information!



How does the Internet work?

(Would you able to explain it?)

Networks

A network is a number of computers that are linked together, so they can share resources, data and even connection to the internet. Networks are classified in PEER TO PEER (all computers have equal status) CLIENT - SERVER (there is one more powerful computer in control of the network , THE SERVER).

Types of networks

- LAN - local area network- star/ring networks
- INTERNET - private autonomous network
- INTRANET - wide area of network open to all

Methods of connecting to the Internet

- ADSL - using phone wires
- CABLE - using fibre - optic or cable TV
- SATELLITE - using orbiting satellites and dish antennas
- MOBILE - using mobile phone networks

Thank You