

# INTRODUCTION OF INTERNET

## History of Internet

### Early Beginnings

- **1950s-60s:**
  - Concept of networking computers began.
  - U.S. military wanted a way to communicate securely even during a war.
- **ARPANET (1969):**
  - Created by the U.S. Department of Defense (ARPA).
  - First network to connect computers at universities and research centers.
  - First message sent between UCLA and Stanford.

### Important Milestones

- **1971:**
  - **First email** sent by Ray Tomlinson.
  - "@" symbol introduced in email addresses.
- **1973:**
  - **First international connection:** University College London joins ARPANET.
- **1974:**
  - Term "Internet" introduced in a paper by Vint Cerf and Bob Kahn.
- **1983:**
  - **TCP/IP** protocol introduced – the "language" of the Internet.
  - ARPANET officially switched to TCP/IP.
  - **Domain Name System (DNS)** created (e.g., .com, .org, .net).

### Growth and Public Use

- **Late 1980s:**
  - Networks expanded beyond ARPANET.
  - Introduction of commercial internet service providers (ISPs).
- **1990:**
  - **ARPANET shut down** – Internet continues growing.
  - Tim Berners-Lee invents the **World Wide Web (WWW)** while working at CERN.
- **1991:**
  - WWW made public.
  - Introduction of **web browsers** like Mosaic (1993), later Netscape.

### Expansion and Modern Internet

- **1990s-2000s:**
  - Massive growth in websites and users.
  - Search engines (like Google, 1998) made finding information easier.
  - Social media platforms started (e.g., Facebook in 2004, YouTube in 2005).
- **Today:**
  - Internet connects billions of people.
  - Used for communication, education, entertainment, business, etc.

## Key Figures

- **Vint Cerf** and **Bob Kahn** – invented TCP/IP.
- **Ray Tomlinson** – sent first email.
- **Tim Berners-Lee** – invented the World Wide Web.

## Quick Timeline

<b>Year</b>	<b>Event</b>
1969	ARPANET launched
1971	First email sent
1983	TCP/IP adopted, DNS created
1990	World Wide Web invented
1991	WWW made public
1993	First web browser (Mosaic)
1998	Google founded