



# Computer Science

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Lessons in Computer Science

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# Outline

- Internet
- How the internet work
- Electronic mail



# Internet

The Internet is a global network that connects computer devices and servers around the world, allowing users to exchange information, data, and files quickly and efficiently.

Users can access websites, email, forums, social networks, and other services that enable communication and interaction between individuals, companies, and institutions



# Internet

The Internet works based on a set of protocols and technologies that enable communication and exchange of data between the devices.

Today, the Internet represents an essential part of human life, ranging from entertainment and social interaction to business, education, and e-commerce.

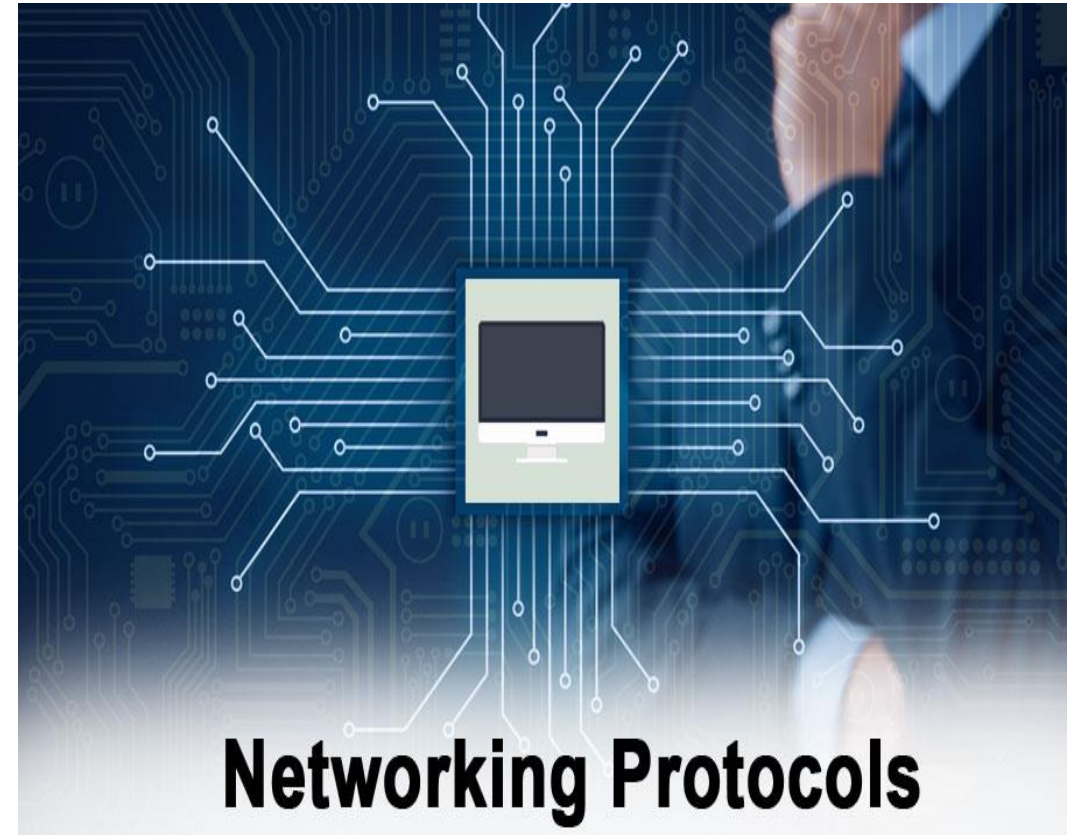


# protocol

A protocol is a set of rules and guidelines that governs the communication and interaction between two or more devices or systems. In other words, it is a standardized way of exchanging information between devices or systems.

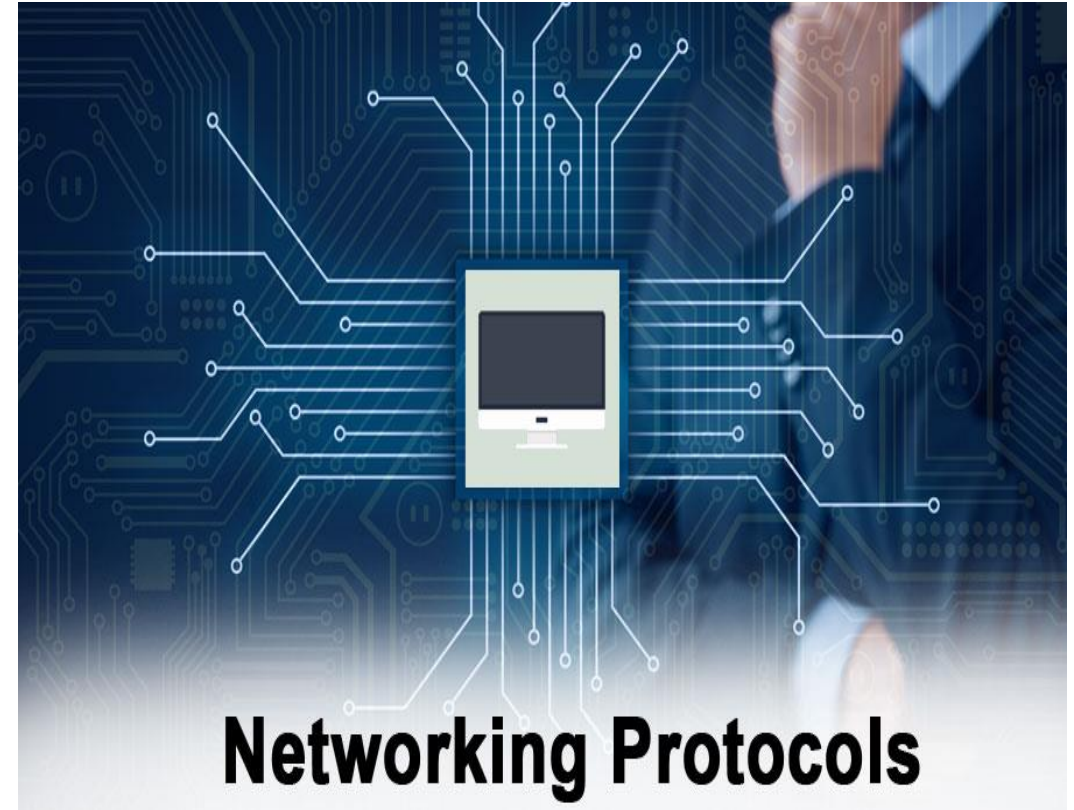
Protocols are essential in various fields, including computing, telecommunications, and networking, to ensure that devices can communicate with each other in a reliable and efficient manner.

Protocols specify the format, timing, and sequence of messages exchanged between devices, and they define the roles and responsibilities of each device in the communication process.



# protocol

Internet Protocol (IP) is a set of rules that governs the transmission of data over the Internet. It is a network layer protocol that defines how data is sent between devices on the Internet. The IP protocol is responsible for routing data packets from the source device to the destination device across the Internet.



## How the internet work?

- A device (such as a computer or smartpone) connects to the Internet through an Internet Service Provider (ISP) using a wired or wireless connection.
- The device sends a request to access a website or any other resource on the Internet using a web browser or any other application.
- The request is sent to the local router, which forwards it to the ISP's network.
- The ISP's network then forwards the request to other networks until it reaches the destination server.
- The server processes the request and sends the requested data back to the requesting device using the same path.
- The data is received by the device, which displays it on the screen or processes it further as needed.



## Electronic mail

electronic mail, is a method of exchanging digital messages between people using electronic devices such as computers, smartphones, and tablets. It is one of the most popular forms of digital communication and is widely used for personal and business purposes.

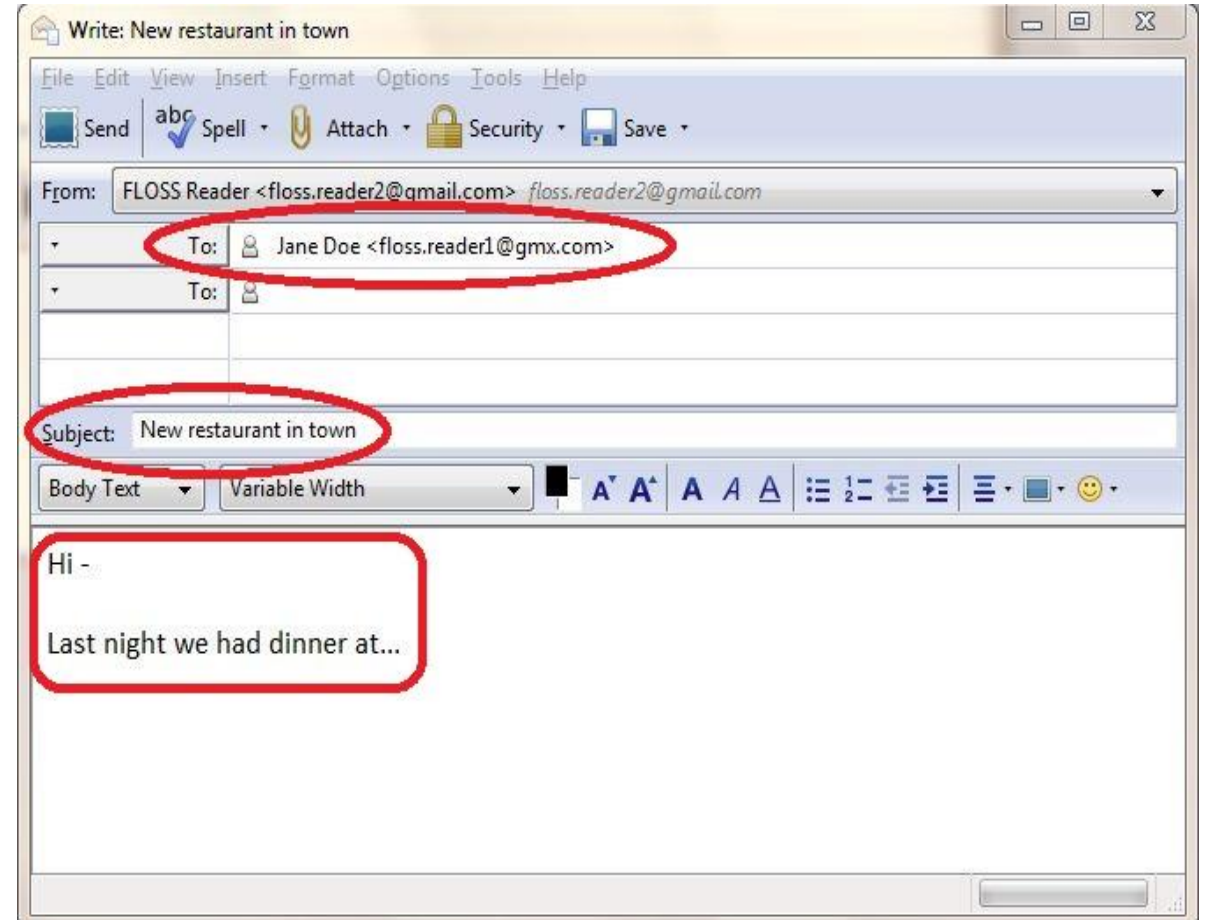




# Email

An email message typically consists of a message body, a subject line, and one or more recipients.

The message body can include text, images, and attachments such as files and documents. The subject line provides a brief summary of the message's content, and the recipients are the people who will receive the message.



# Email

Email services are available from a variety of providers, including free services such as Gmail, Yahoo Mail, and Outlook.com, as well as paid services for businesses and organizations. Email has become an essential tool for communication, allowing people to exchange messages and information quickly and easily from anywhere in the world.



**Thank you**

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