**What is Internet?**

A worldwide system of interconnected computer networks and electronic devices that communicate with each other using an established set of protocols.

**History of the Internet**

The Internet came in the year 1960 with the creation of the first working model called [ARPANET (Advanced Research Projects Agency)](https://www.geeksforgeeks.org/arpanet-full-form/). It allowed multiple computers to work on a single network which was their biggest achievement at that time. ARPANET uses packet switching to communicate multiple computer systems under a single network. In October 1969, using ARPANET first message was transferred from one computer to another. After that technology continues to grow.

**How is the Internet Set Up?**

The internet is set up with the help of physical optical fiber data transmission cables or copper wires and various other networking mediums like LAN, WAN, MAN, etc. For accessing the Internet even the 2G, 3G, and 4G services and the Wifi require these physical cable setups to access the Internet. There is an authority named **ICANN (Internet Corporation for Assigned Names and Numbers)** located in the USA which manages the Internet and protocols related to it like IP addresses.

**How Does the Internet Work?**

The actual working of the internet takes place with the help of [clients and servers](https://www.geeksforgeeks.org/client-server-model/). Here the client is a laptop that is directly connected to the internet and servers are the computers connected indirectly to the Internet and they are having all the websites stored in those large computers. These servers are connected to the internet with the help of [ISP (Internet Service Providers)](https://www.geeksforgeeks.org/isp-full-form/) and will be identified with the IP address.

<https://www.nslookup.io/>

<https://www.submarinecablemap.com/>

**What is an IP Address?**

[IP Address](https://www.geeksforgeeks.org/what-is-an-ip-address/) stands for Internet Protocol Address. Every PC/Local machine is having an IP address and that IP address is provided by the Internet Service Providers (ISPs). These are some sets of rules which govern the flow of data whenever a device is connected to the Internet. It differentiates computers, websites, and routers. Just like human identification cards like Aadhaar cards, Pan cards, or any other unique identification documents. Every laptop and desktop has its own unique IP address for identification. It’s an important part of Internet technology. An IP address is displayed as a set of four-digit like 192.154.3.29. Here each number on the set ranges from 0 to 255. Hence, the total IP address range from 0.0.0.0 to 255.255.255.255.

You can check the IP address of your Laptop or desktop by clicking on the Windows start menu -> then right-click and go to network -> in that go to status and then Properties you can see the IP address. There are four different types of IP addresses are available:

1. [Static IP Address](https://www.geeksforgeeks.org/difference-between-static-and-dynamic-ip-address/)
2. Dynamic IP Address
3. [Private IP Address](https://www.geeksforgeeks.org/private-ip-addresses-in-networking/)
4. [Public IP Address](https://www.geeksforgeeks.org/difference-between-private-and-public-ip-addresses/)

**World Wide Web (WWW)**

The world wide web is a collection of all the web pages, and web documents that you can see on the Internet by searching their [URLs (Uniform Resource Locator)](https://www.geeksforgeeks.org/url-full-form/) on the Internet. For example, www.geeksforgeeks.org is the URL of the GFG website, and all the content of this site like webpages and all the web documents are stored on the world wide Web. Or in other words, the world wide web is an information retrieval service of the web. It provides users with a huge array of documents that are connected to each other by means of hypertext or hypermedia links. Here, hyperlinks are known as electronic connections that link the related data so that users can easily access the related information hypertext allows the user to pick a word or phrase from text, and using this keyword or word or phrase can access other documents that contain additional information related to that word or keyword or phrase. World wide web is a project which is created by Timothy Berner’s Lee in 1989, for researchers to work together effectively at **CERN**. It is an organization, named **World Wide Web Consortium (W3C)**, which was developed for further development in the web.

https://www.submarinecablemap.com/