

Introduction

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What is browsers?

- A web browser takes you anywhere on the internet. It retrieves information from other parts of the web and displays it on your desktop or mobile device. The information is transferred using the Hypertext Transfer Protocol, which defines how text, images and video are transmitted on the web.

How to work with browser?

- A browser has two elements: **front-end** and **back-end**. The complex back end facilitates the core functioning of the browser, and the front end interacts with the user.
- Browsers provide an intuitive interface for navigating the internet. You can enter a website's address (URL) directly into the address bar, and the browser will take you to that specific webpage. Additionally, you can click on hyperlinks within web pages to navigate to other related pages.
- **Briefly, the 5 steps are:**
 - Handling user input.
 - Sending a URL request.
 - Preparing a renderer process.
 - Committing navigation.
 - Rendering page.

What is Internet?

- The Internet is a vast network that connects computers all over the world. Through the Internet, people can share information and communicate from anywhere with an Internet connection.
- The internet is a worldwide computer network that transmits a variety of data and media across interconnected devices.

Why need internet?

- The internet helps us with facts and figures, information and knowledge for personal, social and economic development. There are many uses of the internet, however, the use of the internet in our daily life depends on individual requirements and goals.
- The internet is a handy tool for education and can be used to facilitate learning in a variety of ways. For instance, students can access online resources to supplement their in-class learning. This could include using web tools to research topics, do practical tasks or submit assignments.
- **Advantages of The Internet**
 - Finding Information. Searching For Information on The Internet.
 - Making Online Payments, Finance, and Banking. Payments, Finance, and Banking on The Internet. .
 - Communication. Communication on the Internet. ...
 - Online Shopping. Online Shopping on The Internet. ...
 - Entertainment. ...
 - Playing Games.

How to work with internet?

- The actual working of the internet takes place with the help of [clients and servers](#). 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 \(Internet Service Providers\)](#) and will be identified with the IP address.
- Each website has its Domain name as it is difficult for any person to always remember the long numbers or strings. So, whenever you search for any domain name in the search bar of the browser the request will be sent to the server and that server will try to find the IP address from the Domain name because it cannot understand the domain name. After getting the IP address the server will try to search the IP address of the Domain name in a Huge phone directory that in networking is known as a [DNS server \(Domain Name Server\)](#). For example, if we have the name of a person and we can easily find the Aadhaar number of him/her from the long directory as simple as that.

What is web?

- The World Wide Web -- also known as the web, WWW or W3 -- refers to all the public websites or pages that users can access on their local computers and other devices through the internet. These pages and documents are interconnected by means of hyperlinks that users click on for information.
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- All publicly accessible websites collectively constitute the World Wide Web. There are also private websites that can only be accessed on a private network, such as a company's internal website for its employees. Users can access websites on a range of devices, including desktops, laptops, tablets, and smartphones.

What is web design?

- Web design is the creation of websites and pages to reflect a company's brand and information and ensure a user-friendly experience. Appearance and design are incorporated as vital elements whether you're designing a website, mobile app or maintaining content on a web page.
- The main difference between web design and web development is that while web designers make visual assets that add aesthetic value to the site (and enhance user experience), web developers are responsible for adding those functionalities.
- Web Design is a field related to designing websites on the Internet. Without a good design, a website fails to perform well and cannot produce a good impact on the user. Design is a creative process that affects the ranking of the brand. A good website design helps to create an engaging online presence that captivates the audience.

What is programming language?

- Language is a mode of communication that is used to **share ideas, opinions with each other**. For example, if we want to teach someone, we need a language that is understandable by both communicators.
- A programming language is a vocabulary and set of grammatical rules for instructing a computer or computing device to perform specific tasks. • The term programming language usually refers to high-level languages, such as BASIC, C, C++, COBOL, Java, FORTRAN, Ada, and Pascal.
- A programming language is a set of instructions written by a programmer to deliver instructions to the computer to perform and accomplish a task.
- A programming language is a **computer language** that is used by **programmers (developers) to communicate with computers**. It is a set of instructions written in any specific language (C, C++, Java, Python) to perform a specific task.

What is scripting language?

- All scripting languages are programming languages. The scripting language is basically a language where instructions are written for a run time environment. They do not require the compilation step and are rather interpreted. It brings new functions to applications and glue complex system together. A scripting language is a programming language designed for integrating and communicating with other programming languages.
- Scripting languages are used in web applications. It is used in server side as well as client side. Server side scripting languages are: JavaScript, PHP, Perl etc. and client side scripting languages are: JavaScript, AJAX, jQuery etc.
- Scripting languages are used in system administration. For example: Shell, Perl, Python scripts etc.
- It is used in Games application and Multimedia.
- It is used to create plugins and extensions for existing applications.

What is markup language?

- A computer language that **consists of easily understood keywords, names, or tags that help format the overall view** of a page and the data it contains.
- HTML and XML are both markup languages, but they have different purposes. HTML is designed for creating web pages and focuses on defining the structure and presentation of content. XML, on the other hand, is a more general-purpose language used for storing and exchanging data in a structured manner.