

INTRODUCTION TO WEB TECHNOLOGIES (SEN 104)

LECTURE NOTES

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INTRODUCTION

PROGRAM

Programs are set of instructions given to a computer to perform a particular task. These instructions are usually written on a compiler. Compilers are softwares used to pass instructions to the computer. Examples are: visual studio code, bracket , sublime etc.



INTRODUCTION

- Programming Language

Programming language are languages the computer understands that is used in passing instruction to them by human. Examples are :JAVA,C#, C++, PASCAL, PHP etc.

- Web technologies involves a lot of computer programming languages and components. examples of web technology programming languages are: HTML,CSS,JAVASCRIPT, PHP



HISTORY OF THE WEB

- Internet (1960s)
- Worldwide web – WWW(1991)
- First Web Browser – Netscape, 1994
- Google, 1998
- Facebook,2004
- Smartphones(iPhone), 2007
- Tablets (iPad), 2010

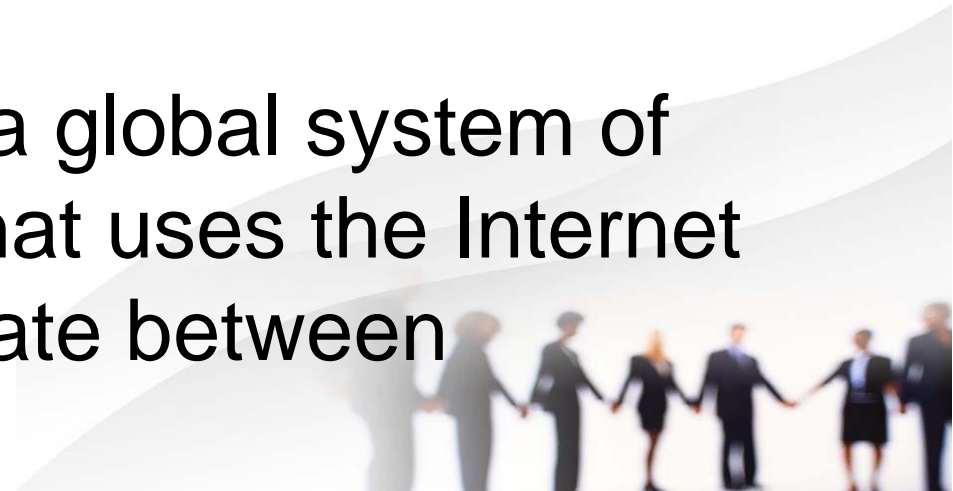


INTRODUCTION TO WEB TECHNOLOGY



INTRODUCTION TO WEB TECHNOLOGY

- Web technologies refers to the way computers/devices communicate with each other using mark up languages. It is communication across the web, and create, deliver or manage web content using hypertext markup language (HTML).
- Internet :The Internet (or internet) is a global system of interconnected computer networks that uses the Internet protocol suite (TCP/IP) to communicate between networks and devices.



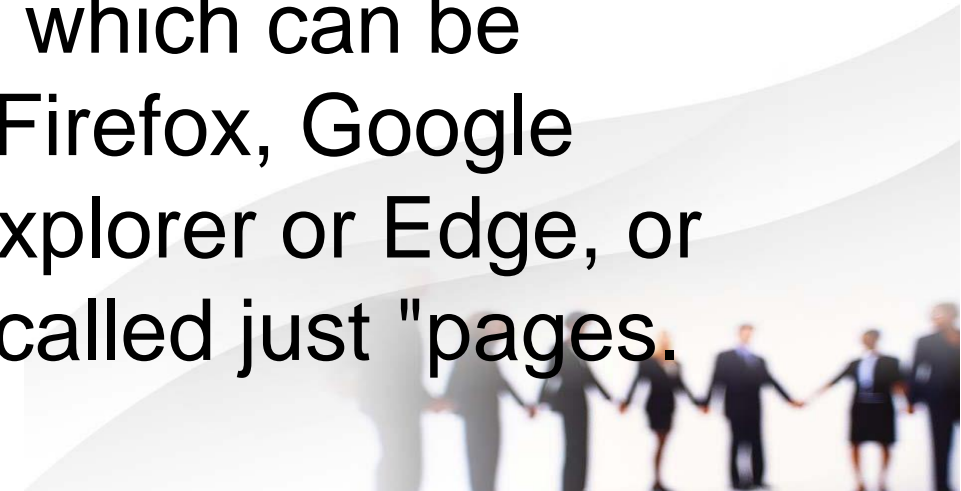
INTRODUCTION TO WEB TECHNOLOGY

- Internet can also be said to be a massive network of networks that connects millions of computers worldwide.
- World Wide Web (WWW): The World Wide Web is a system of interlinked hypertext documents and programs that can be accessed via the Internet primarily by using HTTP.



INTRODUCTION TO WEB TECHNOLOGY

- Web browser: A web browser is an application program for retrieving, presenting and traversing information resources on the World Wide Web . E.g. chrome, Mozilla Firefox, Opera, Safari etc.
- Web Page: Web – Page A document which can be displayed in a web browser such as Firefox, Google Chrome, Opera, Microsoft Internet Explorer or Edge, or Apple's Safari. These are also often called just "pages."



INTRODUCTION TO WEB TECHNOLOGY

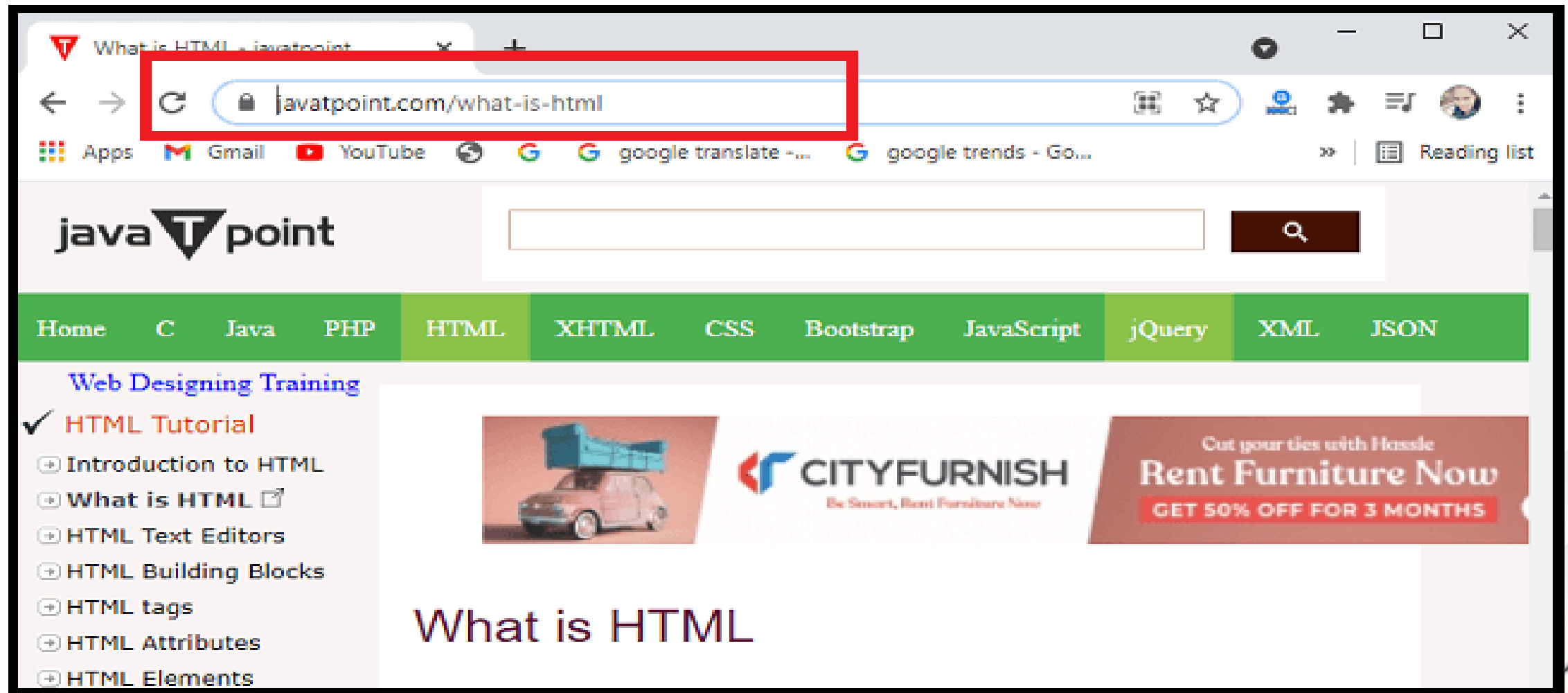
- Website : A collection of web pages which are grouped together and usually connected together in various ways. Often called a "web site" or simply a "site."



Web Browsers



Web Pages



The screenshot shows a web browser window with the address bar highlighted in a red box, displaying the URL `javatpoint.com/what-is-html`. The browser's address bar also shows a lock icon and a search icon. Below the address bar, there are several icons for various services like Gmail, YouTube, and Google Translate. The main content area of the browser shows the website **javaTpoint** with a search bar and a navigation menu. The navigation menu includes links for Home, C, Java, PHP, **HTML**, XHTML, CSS, Bootstrap, JavaScript, jQuery, XML, and JSON. The **HTML** link is highlighted. Below the navigation menu, there is a sidebar on the left with the heading **Web Designing Training** and a list of links: **HTML Tutorial**, Introduction to HTML, What is HTML, HTML Text Editors, HTML Building Blocks, HTML tags, HTML Attributes, and HTML Elements. The main content area features a banner for **CITYFURNISH** with the text "Cut your ties with Hassle Rent Furniture Now GET 50% OFF FOR 3 MONTHS". Below the banner, the title **What is HTML** is displayed.

WEB TECHNOLOGY

- Web technology is divided into two categories: Website design and website based application /web development.
- Website design consists of three programming languages: HTML, CSS, JAVASCRIPT.
- Web development consists of HTML,CSS,Javascript,PHP



WEB TECHNOLOGY

- Other languages are SQL, AJAX, ASP.NET. Etc.
- A new web technology called “WordPress” can be use in creating a website without programming.
- WordPress is an open source Content Management System (CMS), which allows the users to build dynamic websites and blogs. ss

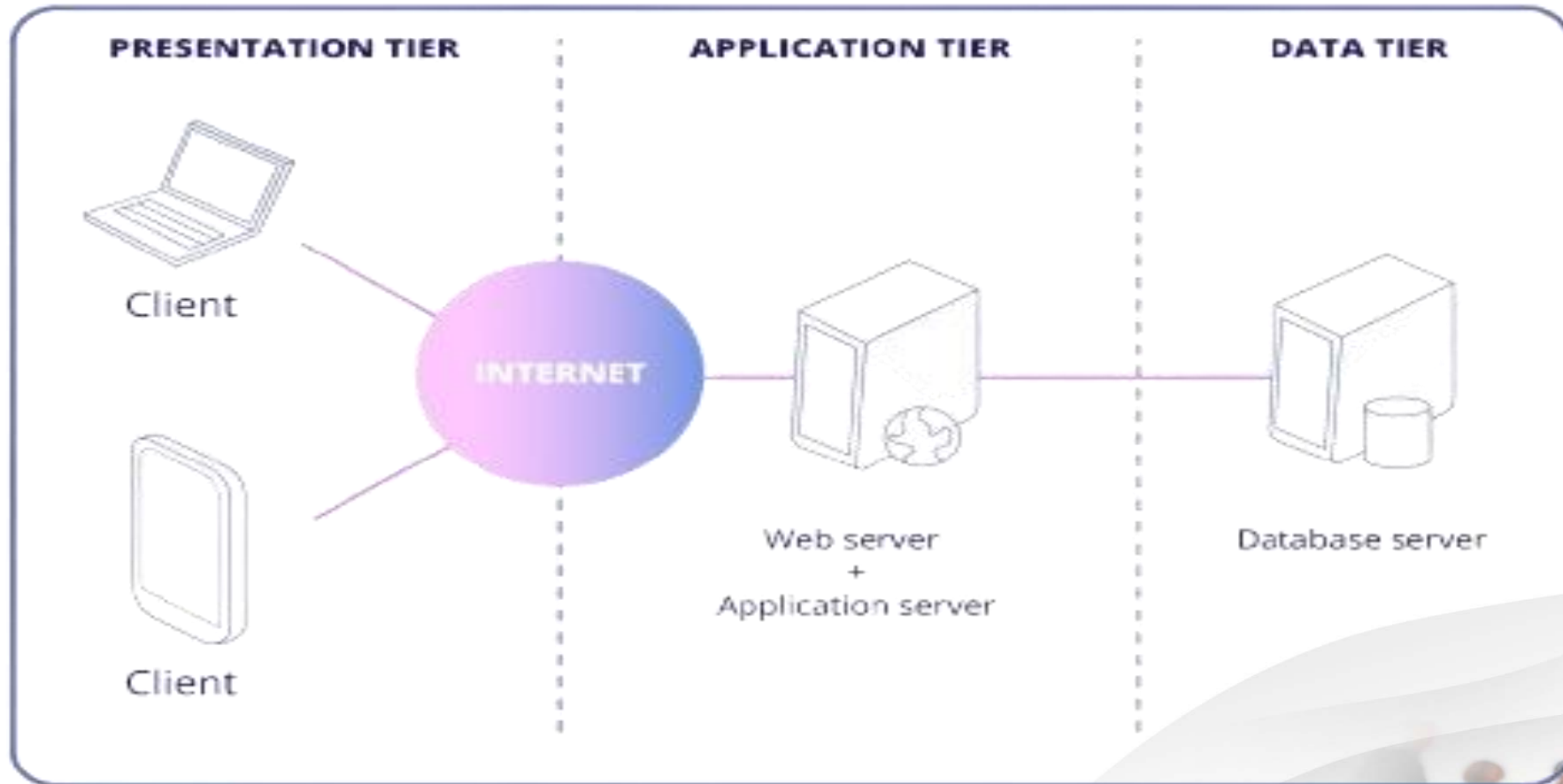


WEB TECHNOLOGY

- Wordpress is the most popular blogging system on the web and allows updating, customizing and managing the website from its back-end CMS and components.



Web Architecture



Web Server

- The term web server can refer to either the hardware (the computer) or the software (the computer application) that helps to deliver web content that can be accessed through the Internet.
- The most common use of web servers is to host websites, but there are other uses such as gaming, data storage or running enterprise applications.



References

- Halvorsen, P. (Msc) University College of Southeast Norway. [https:// www.usn.no](https://www.usn.no)

