

Unit 4: HTML Editors and Tools

4.1. Introduction to HTML Editors and HTML Converters

- ❖ An HTML editor is a piece of software for creating and editing HTML code. It can be a stand-alone software dedicated to code writing and editing or a part of an IDE (Integrated Development Environment).
- ❖ An HTML editor provides more advanced features and is specifically designed for developers to create web pages more efficiently.
- ❖ The main difference between an HTML editor and a simple text editor, is that the HTML editor has more functionality that assists in creating web pages quickly and easily.
- ❖ The most common features of a good HTML editor are:
 - Syntax highlighting
 - Auto-completion
 - Error detection
 - Search and replace
 - FTP integration
 - Code folding

4.2. HTML Editors and tools

- ❖ An HTML editor is a software application that creates and modifies HTML code. HTML is the standard markup language for creating web pages and applications. These editors are essential tools for web developers and designers as they provide a convenient way to build and edit web page layouts and content.
- ❖ Some of the popular HTML text editors are given below:

1. Notepad ++

- ❖ Notepad++ is a free, lightweight, and versatile text editor widely famous for its simplicity and efficiency. It's a favourite among developers for coding, scripting, and HTML editing due to its user-friendly interface and powerful features.
- ❖ It offers many other languages to edit such as c, c++, java etc. Notepad ++ is the extended version of traditional notepad.
- ❖ It helps us to detect the tags, predefined keywords and errors.
- ❖ This tool is simple to use but we need browser to execute the code.

2. VS Code:

- ❖ Visual Studio Code (VS Code) is a powerful, open-source code editor developed by Microsoft. It's known for its versatility, efficiency, and extensive customization options.
- ❖ It is a popular choice among developers for various programming tasks.
- ❖ Visual Studio Code (VS Code) is a multi-platform and multi-language software.
- ❖ Visual Studio Code is compatible with Windows, Mac, and Linux.
- ❖ This open-source code editor uses IntelliSense features to provide different types of auto-completion, including variables, fields, and function definitions.

- ❖ In addition, users can install language extensions, like Python and Ruby, to allow IntelliSense to work with other programming languages.

3. Sublime Text

- ❖ Sublime Text is a cross platform code editor tool. It supports all markup languages. Similar to Notepad editor.
- ❖ Sublime Text is a shareware text and source code editor available for Windows, macOS, and Linux.
- ❖ It natively supports many programming languages and markup languages
- ❖ The following is a list of features of Sublime Text:
 - "Goto Anything", quick navigation to project files, symbols, or lines.
 - Python-based plugin API
 - Project-specific preferences
 - Extensive customizability via JSON settings files, including project-specific and platform-specific settings
 - Cross-platform (Windows, macOS, and Linux) and Supportive Plugins for cross-platform

4. Dreamweaver

- ❖ Adobe Dreamweaver is a software program for designing websites, which is more featured as compared to HTML web and programming editor. It was originally developed and published by Macromedia.
- ❖ Adobe took over Macromedia in 2005 and continued the development in the software and it's still going on.
- ❖ Dreamweaver is a visual web page editor that allows us to create, edit and manage websites and webpages without having to learn HTML.
- ❖ It uses a WYSIWYG environment that allows us to see what our web pages look like as we create them.
- ❖ In Dreamweaver, we can design both using visually and by using code.
- ❖ It allows us to display the CSS box model without having to know the way to code the stylesheets manually
- ❖ Dreamweaver offers a design palette with a large number of color options. The user can either use the default color available or make its own composition.

Note: **WYSIWYG** stands for "What You See Is What You Get". As the name suggests, the WYSIWYG editor shows a live preview of your page as you add or modify elements.

5. CoffeeCup HTML Editor

- ❖ CoffeeCup is another HTML editor with a broad range of features and functionality. For example, users can choose to create HTML and CSS files from scratch or customize a pre-made template design from its library.
- ❖ CoffeeCup HTML editor offers a components library, where users can add web elements like menu, footer, and header across multiple pages. Instead of manually updating each new page, they can simply modify certain library items.
- ❖ This HTML editor offers multiple ways to preview a website before publishing it. A live preview splits the screen into the coding area and web page, enabling users to code side-by-side. An external preview is also available for displaying a page in a new window.

6. Atom

- ❖ Atom is a free, open-source, and highly customizable text editor created by GitHub, tailored for ease of use, extensibility, and collaborative coding. It's a tool favoured by developers for its modern interface and rich feature set, particularly suitable for web development and HTML editing.
- ❖ It offers:
 - Customizable color schemes to make code more readable
 - A wide selection of third-party plugins to catch coding errors
 - Keyboard shortcuts to speed up your workflows
 - Automatic code indentation
 - Highlighting language-specific syntax
 - The ability to view our project's file and folder structure in a tree

4.3 Graphical and Animation Tools

Use of Photoshop in web design:

Adobe Photoshop:

- ❖ Photoshop is a popular program used by web designers to create graphics and layouts for websites.
- ❖ It's a versatile tool that can be used to manipulate images, text, and shapes.
- ❖ Photoshop can be used to create graphics for websites, logos, social media posts, or any other type of project.
- ❖ It's also a great tool for creating detailed layouts for websites.
- ❖ Photoshop is a software program that can be used to create images, graphics, and videos. It has a wide variety of features that can be used for web design, such as the ability to add text, change colors, and create logos.
- ❖ Photoshop is also versatile enough to be used for other types of projects, such as creating illustrations or creating videos.
- ❖ It is perfect for both beginner and experienced designers.
- ❖ It has become an essential tool in the field of web design because it can be used to create intricate and realistic designs that can easily be customized to match the needs of any website or application
- ❖ So, let's discuss few points on the role of Photoshop for web designers.
 - Logo Design
 - Banner Design of a Website
 - Creating Pixel Perfect Web Designs
 - Creating Wireframe or Prototype for a Website
 - Font Choice And Typography
 - Layered PSDs For Front-End Developers
 - Image Formats

MS Paint:

- ❖ MS Paint is computer software which is used to edit raster images. It is also known as Microsoft Paint as it comes with Windows operating system.
- ❖ It was developed by Microsoft and Its main purpose is to provide basic drawing tools to create and edit digital images.
- ❖ Microsoft Paint is a popular program for graphic editing. Its user-friendly interface makes it great for professionals and beginners.
- ❖ It has useful tools like pencil, brush, eraser, shapes, text, and colors. We can also import images and capture screenshots.

- ❖ MS Paint can be used for a variety of tasks such as creating simple graphics and diagrams, cropping and resizing images, and adding text and shapes to images. It is also often used to create memes
- ❖ Features of MS Paint
 - Selecting and Resizing Shapes
 - Drawing Lines and Freehand Sketches
 - Adding Text and Customizing Fonts
 - Using Layers for More Complex Designs
 - Applying Color and Fill Options
 - Creating and Editing Images
 - Keyboard Shortcuts for Quick Actions
 - Using the Undo and Redo Functions
 - Saving and Exporting our Artwork

Use of Flash in web design

Adobe Flash:

- ❖ Adobe Flash is a leading multimedia platform that web designers can use to add video, animation and interactivity to web pages.
- ❖ Adobe Flash is a vector base application made for drawing and creating animation.
- ❖ Flash has several benefits in web design, because it entirely changes the face of web pages.
- ❖ It is now largely applied for ads, games and animations for broadcast on the web.
- ❖ Adobe Flash was a popular software to create digital content containing elements like the following:
 - animations
 - graphic illustrations/motion graphics
 - interactivity
 - streaming video
 - audio
 - text
- ❖ Here are seven major benefits of using Flash for web design.
 - Makes sites more attractive
 - Acts as an educational tool
 - Attracts more visitors
 - Presents sites in multiple ways
 - Easy and inexpensive
 - Runs on any browser
 - Supports most of handsets

HTML <embed> tag:

- ❖ The <embed> tag in HTML is used for embedding external applications which are generally multimedia content like audio or video into an HTML document.
- ❖ It is used as a container for embedding plug-ins such as Flash animations.
- ❖ This tag is a new tag in HTML 5, and it requires only a starting tag.
- ❖ **Syntax:**
 - <embed attributes>

Attributes of <embed> Tag:

Attribute	Value	Description
height	pixels	It specifies the height of the embedded content
src	URL	It defines the resource location of the embedded document.
type	media-type	It specifies the MIME type.
width	pixels	It determines the width of the embedded content.

Example: An embedded image

```
<!DOCTYPE html>
<html>
<body>
  <h1>An embedded image </h1>
  <embed type="image/jpg" src="./Photo/kit banner.png" width="600"
height="150">
</body>
</html>
```

Example: An embedded video

```
<!DOCTYPE html>
<html>
<body>
  <h1>An embedded video</h1>
  <embed type="video/mp4" src="./Video/Resham.mp4" width="500" height="400">
</body>
</html>
```

Example: An embedded pdf

```
<!DOCTYPE html>
<html>
<head>
  <title>PDF in HTML</title>
</head>
<body>
  <h1>Embedding the PDF file Using embed Tag</h1>
  <embed src="./pdf/Unit 1_Internet & Web.pdf"
width="100%" height="100%" type="application/pdf">
</body>
</html>
```