

# **Web Design using HTML5**

# Introduction

- A markup language is a computer language that uses **tags** to define elements within a document.
- It is human-readable, meaning markup files contain standard words, rather than typical programming **syntax**. While several markup languages exist, the two most popular are **HTML** and **XML**.

# What is HTML?

The full form of HTML is HyperText Markup Language. Tim Berners-Lee created HTML in 1989. HTML is a basic web programming language that is used to design basic websites. HTML programming helps people convey their thoughts to the world through the website. In this topic, we are going to learn about What is HTML5.

# HTML5

- HTML5 is designed to deliver almost everything you want to do online without requiring additional plug-in. It does everything from animation to apps, music to movies, and can also be used to build complicated applications that run in your browser.
- HTML5 is also cross-platform (it does not care whether you are using a tablet or a Smartphone, a notebook, notebook or a Smart TV).

# Environment Setup

S.No.	Description
Step 1	Download Visual Studio Code
Step 2	<a href="https://code.visualstudio.com/nodejs">https://code.visualstudio.com/nodejs</a>
Step 3	Run the "setup.exe" file.
Step 4	Follow the setup instructions.

# Structure of HTML

```
<html>
  <head>
    <title>This Is Your Title </title>
  </head>

  <body>
    <h1> This Is Your Header </h1>
    <p> This is your paragraph. </p>
  </body>
</html>
```

# Supported Web Browser

Feature	Internet Explorer Platform Preview 6	Google Chrome 7.0.517.41 beta	Firefox 4 Beta 6
attributes	100%	100%	100%
audio	100%	100%	100%
canvas	89.55%	80.6%	75.32%
getElementsByClassName	83.33%	100%	94.12%
foreigncontent	100%	100%	100%
video	100%	92.86%	71.43%
xhtml5	100%	42.86%	85.71%

# A Sample HTML Page

```
<!DOCTYPE html>
<html>
<head>
<title>title tag of html</title>
</head>
<body>
<h1>heading tag of html</h1>
<p>paragraph tag of html</p>
</body>
</html>
```

# Applications

- Web pages development
- Web document Creation
- Internet navigation
- Responsive images on web pages
- Client-side storage
- Game development usage

# Why Learn HTML5?

- With HTML5, a developer has a lot of potential good tools and APIs in their arsenal, which can make its contemporary technologies lag behind.
- Usage in HTML is wide-spread and has become more sophisticated than ever before. It's the developer's ability to put applications of HTML concept in real-time usage.

# Outcome

HTML is more complicated with its latest set of elements and a large set of APIs. Anyone who can grasp the basic concept is to a good start. Gone are the days when HTML was synonymous with the usage of a certain set of elements, tags, and their attributes.