HTML Overview

About HTML 5

World Wide Web Consortium (W3C)

Hypertext Markup Language was introduced in 1990.

HTML 5 was recommended as a standard by W3C in 1997.

HTML 5 is the next version and will be the new standard.

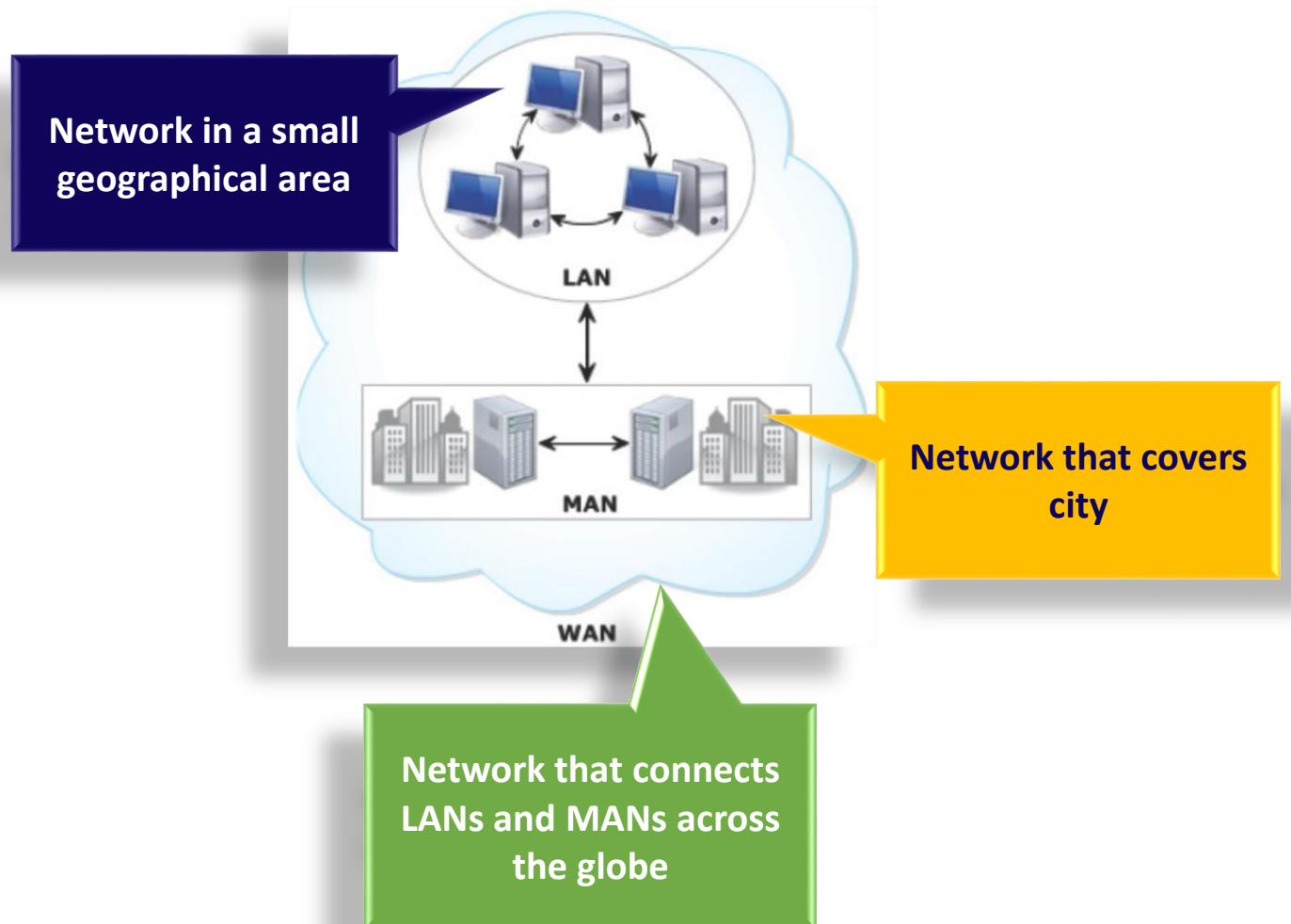Majority of the browsers support HTML 5 element and Application Programming Interface (API).

React /
Java /
Python

API

Database

Queries

Types of Networks

❖ Local Area Network (LAN)

❖ Metropolitan Area Network (MAN)

❖ Wide Area Network (WAN)

Network in a small geographical area

Network that covers city

Network that connects LANs and MANs across the globe

What is Internet ?

➤ Internet is network of networks

➤ Internet is known as the largest WAN.

➤ WAN raised the need to share data across the globe rather than within an organization.

➤ This resulted in the evolution of Web also known as World Wide Web (WWW).
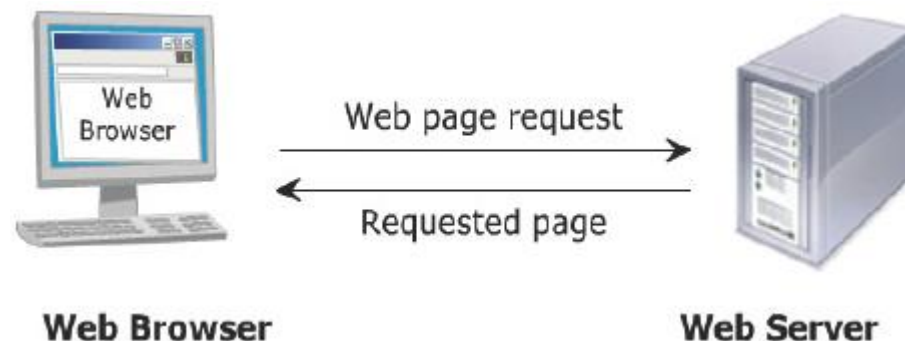
Web Communication

❖ **Steps to view a Web page in a browser are as follows:**

> 1. User specifies the Uniform Resource Locator (URL) of Web page in a browser.

> 2. The client browser sends the URL request to the appropriate Web server.

> 3. Web server processes the request and sends the Web page as a response to the browser.

Web Browser   Web page request →   ← Requested page   Web Server

Why Web designing is Important?

1. It sets the first impression

2. It aids your search engine optimization (SEO) strategy

3. It sets the impression for customer service

4. It builds trust with your audience

5. Your competitors are doing it

Your website should be designed keeping in mind your audience and should ensure that it improves user experience.

Brand image   Colour   Layout   Fonts and typography   Website accessibility   Site navigation

What is Website?

A collection of web pages which are grouped together and usually connected together in various ways. Often called a "web site" or a "site."
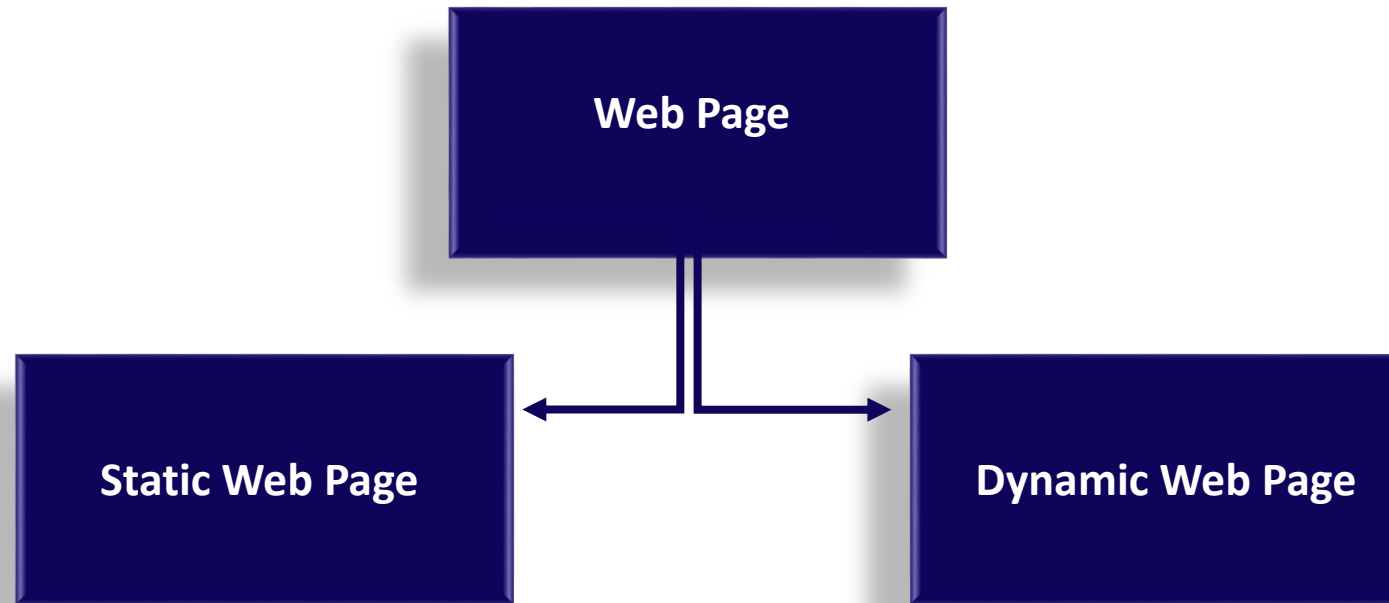
What is Webpage?

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."
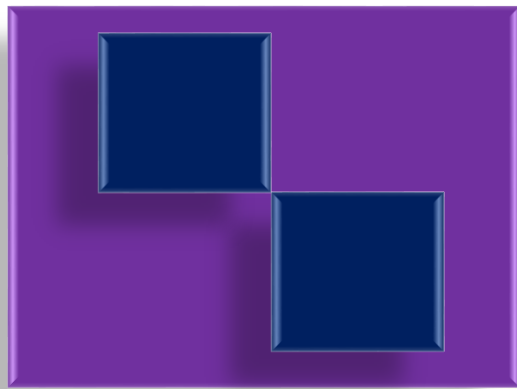
What is Web server?

It is an Storage Area , where out files are stored

GitHub

Types of Web Pages

Web Page

Static Web Page

Dynamic Web Page

Static Content

Welcome **User!**
How's it going **there?**
👤 User 1

Welcome **User!**
How's it going **there?**
👤 User 2

Welcome **User!**
How's it going **there?**
👤 User 3

Contents remain unchanged

Static Web Pages

Consists of content such as text, images, videos and so on

Focuses on content presentation

Simple to design as it provides no interactivity

Allows customization of content and its appearance in browser

Dynamic Web Pages

Data is always up-to-date and reliable

Generates content on-demand when user provides input

Allows user interaction

PHP

HTML

JAVA SCRIPT

C++

CMS

`<code>`

`</...>`

`</>`

`[#]`
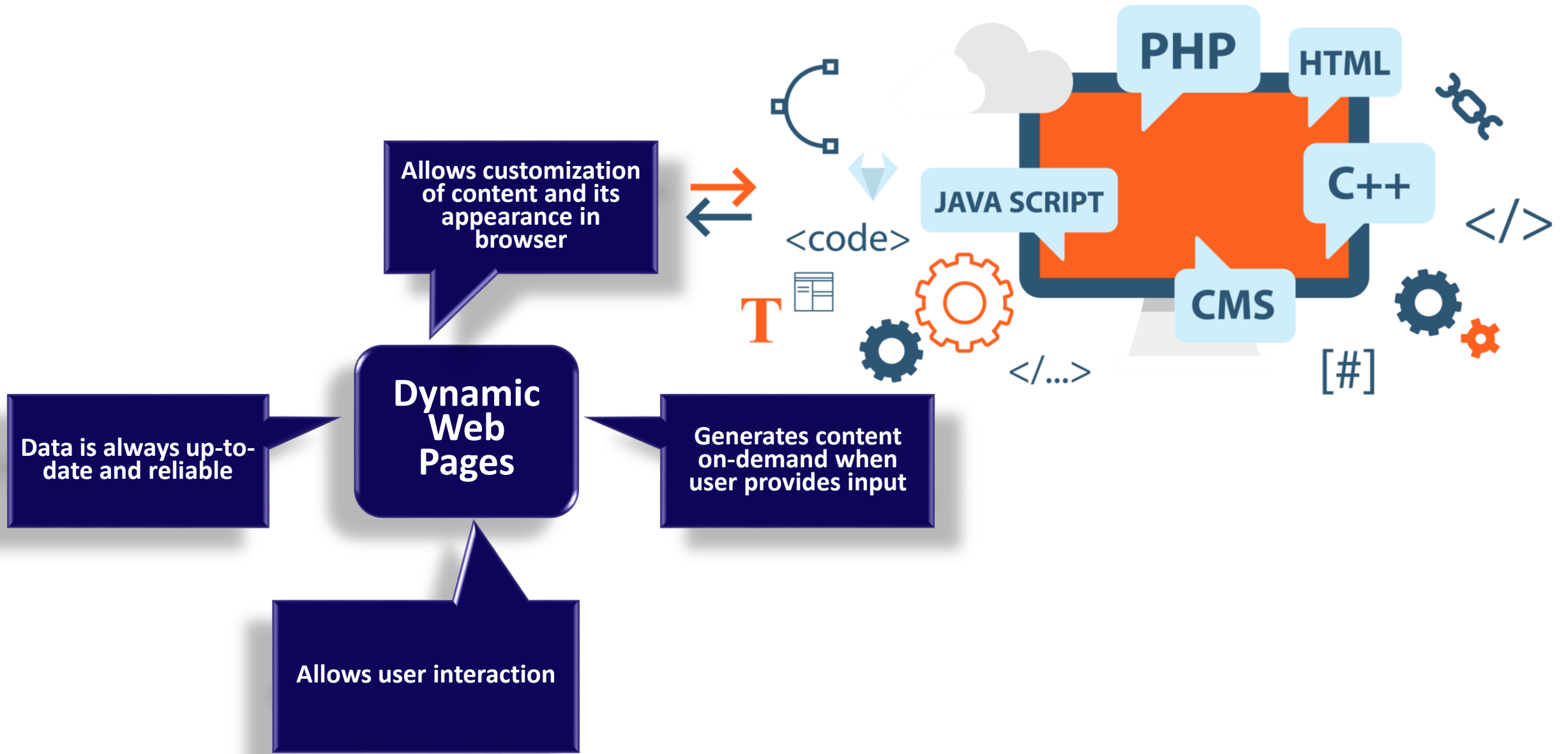
T
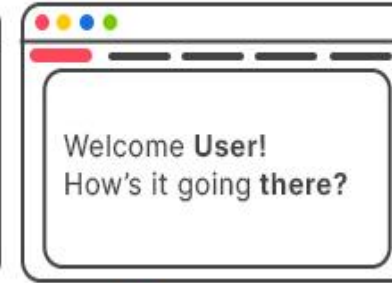
Example of best uses:

Static

artist portfolios, blogs, musicians, influencers, landing pages, etc.

Dynamic

ecommerce sites, health & financial services, saas, news sites, etc.

What is HTML5?

HTML5 is a markup language used for structuring and presenting content on the World Wide Web. It is the fifth and final major HTML version that is a World Wide Web Consortium recommendation.
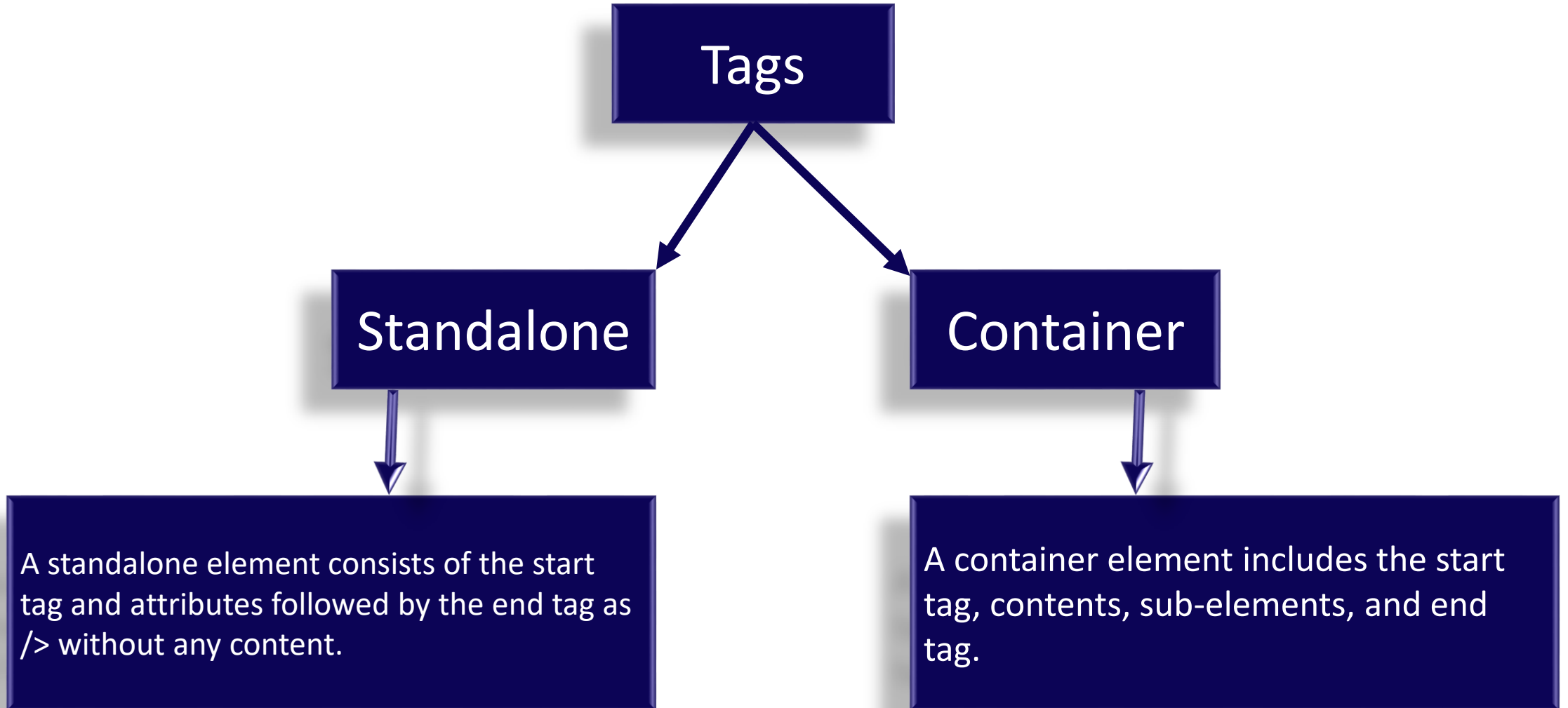
It is **a system that allows the modification of the appearance of web pages, as well as making adjustments to their appearance**.

HTML File is saved with .html extension

Tools :

      1. Notepad

      2. Sublime

      3. VS code

Types of Tags

```
                    ┌──────────────┐
                    │     Tags     │
                    └──────────────┘
                      ↙          ↘
        ┌──────────────┐      ┌──────────────┐
        │  Standalone  │      │  Container   │
        └──────────────┘      └──────────────┘
              ↓                      ↓
```

A standalone element consists of the start tag and attributes followed by the end tag as /> without any content.	A container element includes the start tag, contents, sub-elements, and end tag.

Structure of HTML5 web page

Tags : < TagName>   </TagName>

```
<!doctype html>
<html>
          <head>
                    <title> </title>
           </head>
          <body>

          </body>
</html>
```

<!doctype html>   ----------------------- Version of HTML (5)

<html> </html>   ----------------------- Largest Container Tag which contains all other Tags

<head> </head>   ----------------------- It is used to store the Information about the Page.

<title> </title>   ----------------------- Title for the Page

<body> </body>   ----------------------- This is the Second Largest Container Tag which contains the Content of the Page

Tags inside head tag

<title> </title>	It defines the title of the page
<style> </style>	Used to write internal CSS
<link href ="">	Used to link external CSS
<meta> </meta>	Used to write data about the page
<script> </script>	Used to write internal JavaScript
	and used to include external Javascript

Heading Tags

Heading elements define headings for contents such as text and images.

```
<h1> </h1>        : Every Page Must have a single h1 tag
<h2> </h2>        : Every Page Must have 2-3 h2 tags
<h3> </h3>
<h4> </h4>
<h5> </h5>
<h6> </h6>
```

Other Formatting Tags

<p> </p> : Paragraph Tag

  : Bold

<i> </i> : Italic

<u> </u>: Underline

  : Same as bold, but we use it more in our coding on the basic of marketing

  : Italic Text

<del> </del> : To show the deleted Text

 : Subscript

 : Superscript

<ins> </ins> : To Show Inserted text

<small> </small> : to Make Text small

<big> </big> : To Make text big

<center> </center> : To Align Text to the Center in horizontal way.

<pre> </pre> : It is a preformatted text used to write poems.

<blockquote> </blockquote> : to Write Blocks

<hr> : For horizontal Line

 : For Line Break

: For Moving text .

How To change the Background color of the Web page

```
<body bgcolor="colorName">
</body>
```

```
<body bgcolor="black" text="gold"> </body>
```

<> : Angular Bracket
body : Element
bgcolor: Attrubite
black : Is the value of bgcolor attribute.