

BASICS OF WEB DEVELOPMENT

Let's dive into the world of development



Agenda



1 What is Web Development ?

2 Popular Tech Stacks

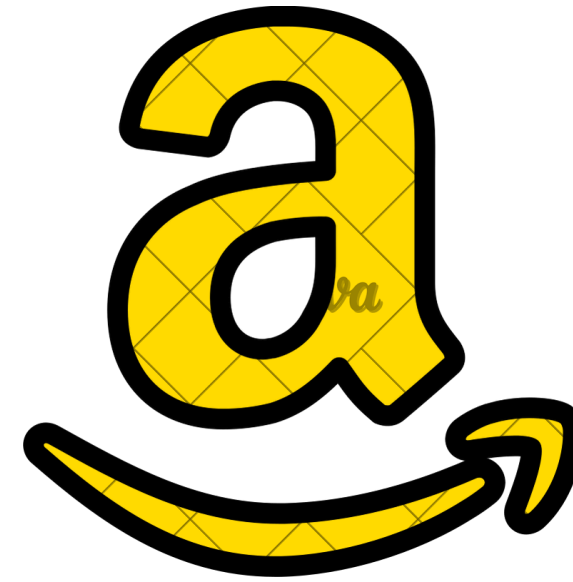
3 HTML Tags

4 Doubts and Resources

What is web development ?

Web Development is the process of creating websites or web applications that are accessible via the internet. It involves a combination of various technologies and skills to design, build, and maintain web-based software or content.

Web development encompasses both the front-end and back-end aspects of creating web content.



WEBSITE OR WEBAPP ?

- Websites are primarily informational in nature. They serve content to visitors and are usually focused on providing information, promoting a business, or sharing resources.
- Websites typically consist of static or minimally dynamic content.
- Interaction on a website is generally limited to navigation, filling out forms, and basic user engagement.

- Web applications are more dynamic and interactive. They go beyond displaying information; they allow users to perform various tasks, interact with data, and often have user accounts and authentication systems.
- Web applications can include online tools, e-commerce platforms, social media networks, content management systems, project management software, and more.
- Interactivity and user input are key features of web applications. They often include complex functionality, databases, user authentication, and real-time updates.

FRONTEND / BACKEND TECHNOLOGY STACK

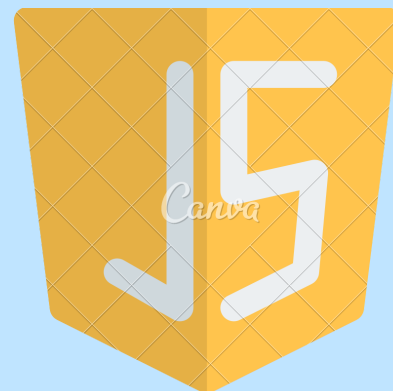
FRONTEND

Works on the client side of web development. Used for UI/UX.

HTML

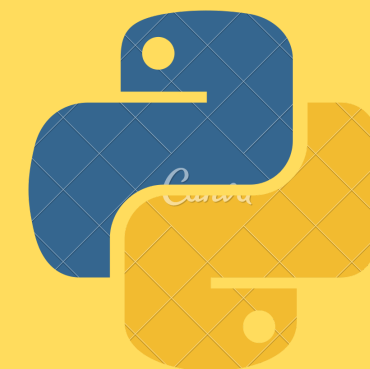


CSS



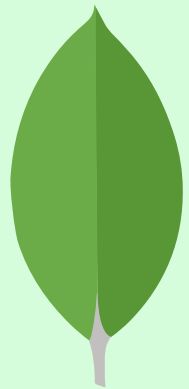
BACKEND

Works on the server side of web development. Used for server-side logic, databases and the functionality.

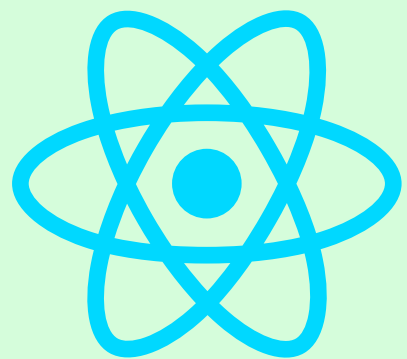


POPULAR TECHNOLOGY STACK

MERN

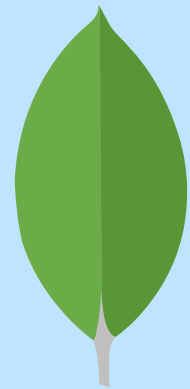


Express



node JS

MEAN



Express

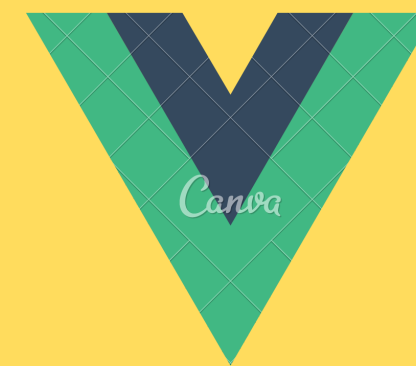


node JS

MEVN



Express



node JS

What is HTML ?

```
<!DOCTYPE html>
<html>
<head>
  <title>My First Web Page</title>
</head>
<body>
  <h1>Welcome to My Website</h1>
  <p>This is a simple webpage created using HTML.</p>
  <a href="https://www.example.com">Visit Example.com</a>
</body>
</html>
```

HTML stands for **Hypertext Markup Language**. It is the standard markup language used to create and structure content on the World Wide Web. HTML is the foundation of web pages and is used to define the structure and semantics of a webpage's content, including text, images, links, forms, and other elements.

What are HTML Tags ?

HTML contains lots of predefined tags. Popular HTML Tags are :-

- `<!DOCTYPE html>` defines the document type and version of HTML being used (HTML5 in this case).
- `HTML` : It is the root of the HTML document which is used to specify that the document is HTML.
- `HEAD` : The head tag is used to contain all the head elements in the HTML file.
- `TITLE` : It is used to define the title of an HTML document.
- `BODY` : It is used to define the body of an HTML document. It contains images, tables, lists, ... etc.

Basic HTML Tags

HTML contains lots of predefined tags. Popular HTML Tags are :-

- **<h1> to <h6>**
(Headings) Tags

```
<h1>Main Title</h1>
<h2>Subtitle</h2>
```

- **<p> (Paragraph) Tag:**

```
<p>This is a sample paragraph of text.</p>
```

- **<div> (Division) Tag:**

```
<div>
  <p>This content is inside a div.</p>
  <p>It can be styled or manipulated as a group.</p>
</div>
```

Basic HTML Tags

HTML contains lots of predefined tags. Popular HTML Tags are :-

- `
` (Line Break) Tag: Inserting a line break.

```
This is some text.<br>This is on a new line.
```

- `<hr>` (Horizontal Rule) Tag: Creating a horizontal line.

```
<p>Some content above the line</p>
<hr>
<p>Some content below the line</p>
```

- `` (Emphasis) Tag : Adding emphasis to text.

```
This text is <em>emphasized</em>.
```

- `` (Bold) Tag: Making text bold.

```
This text is <b>bold</b>.
```

Basic HTML Tags

HTML contains lots of predefined tags. Popular HTML Tags are :-

- `<i>` (Italic) Tag: Making text italic.
- `<small>` Tag: Reducing the font size.
- `<u>` (Underline) Tag: Underlining text.
- `<a>` (Anchor) Tag: Creating a link to Google.
- `` (Image) Tag: Embedding an image.
- `<style>` Tag: Adding inline CSS styles.

```
This text is <i>italic</i>.
```

```
This is <small>smaller text</small>.
```

```
This text is <u>underlined</u>.
```

```
<a href="https://www.google.com">Visit Google</a>
```

```

```

```
<p style="color: blue; font-size: 16px;">Styled text.</p>
```

List Tags in HTML

Creating list in HTML:

** (Unordered List) and (List Item) Tags:**

Unordered List: Creating an unordered list.

```
<ul>
  <li>Item 1</li>
  <li>Item 2</li>
  <li>Item 3</li>
</ul>
```

** (Ordered List) and (List Item) Tags:**

Ordered List: Creating an ordered (numbered) list.

```
<ol>
  <li>First item</li>
  <li>Second item</li>
  <li>Third item</li>
</ol>
```

Media Tags in HTML

- The `<audio>` and `<video>` tags are HTML elements used for embedding audio and video content on a web page. They offer various features to control and customize multimedia playback. Here's an overview of these tags and their features:>.

```
<audio controls>
  <source src="audio.mp3" type="audio/mpeg">
  <source src="audio.ogg" type="audio/ogg">
  Your browser does not support the audio element.
</audio>
```

```
<video controls width="640" height="360">
  <source src="video.mp4" type="video/mp4">
  <track kind="subtitles" label="English" src="captions_en.vtt">
  Your browser does not support the video element.
</video>
```

Additional Tags in HTML

- **<meta> Tag:** Defining metadata for the web page.
- **<nav> (Navigation) Tag:** Defining a navigation menu.
- **Comments:** Comments in HTML are not visible to website visitors but are used for documentation, notes, or explanations within the source code. In HTML, comments are written between `<!--` and `-->`.

```
<meta charset="UTF-8">
<meta name="description" content="This is a sample webpa
<meta name="author" content="John Doe">
```

```
<nav>
  <ul>
    <li><a href="/home">Home</a></li>
    <li><a href="/about">About</a></li>
    <li><a href="/contact">Contact</a></li>
  </ul>
</nav>
```

```
<!-- This is a sample HTML comment. -->
```

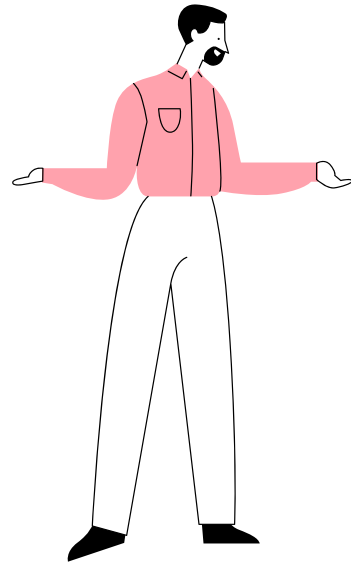
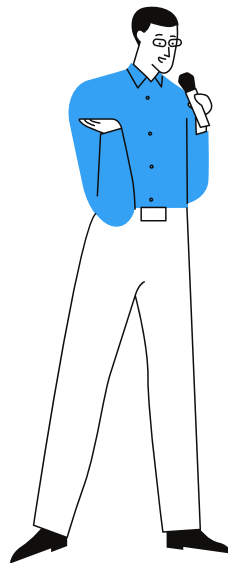
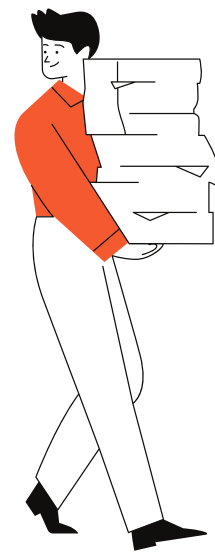
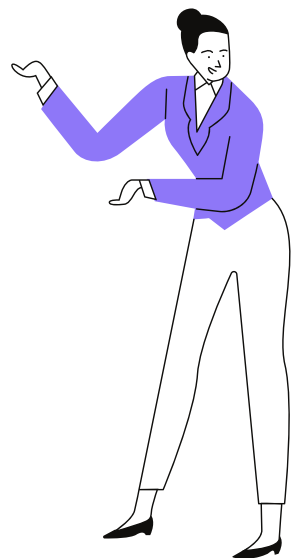
**Let's Go Live
with your
first
website!!!**



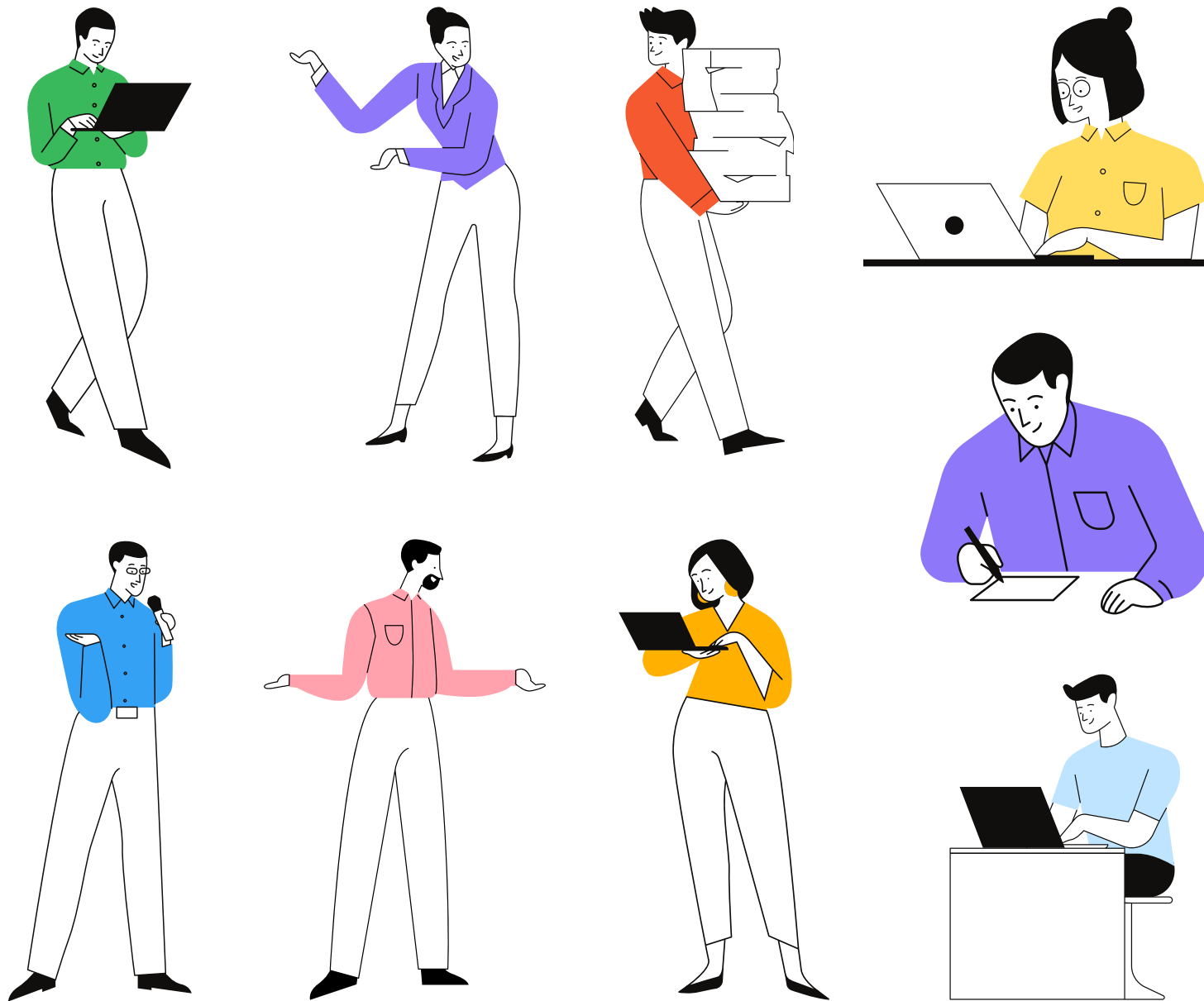
Ask Your Doubts !



**We are happy to
answer you !!**



Resource Page



<https://www.geeksforgeeks.org/most-commonly-used-tags-in-html/>

https://www.w3schools.com/tags/ref_byfunc.asp

<https://www.youtube.com/watch?v=Vi9bxu-M-ag&list=PLDzeHZWIZsToOwSBcg4-NMIbCOL8evLrD>