Intro to Web Development

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Programming Club, IIITG Sun, 16th Jan 2022

What is Web Development?

Web development refers to the building, creating, and maintaining of websites.

Various Parts and technologies used in Web Development are:-

Frontend: HTML, CSS, JavaScript, Frameworks like Bootstrap, React etc.

Backend: Python (Django), Node.js, Ruby etc.

Database: MySQL, PostgreSQL, MongoDB...

Others: Git, GitHub

Let's Get Started...

HTML and CSS

Development Setup

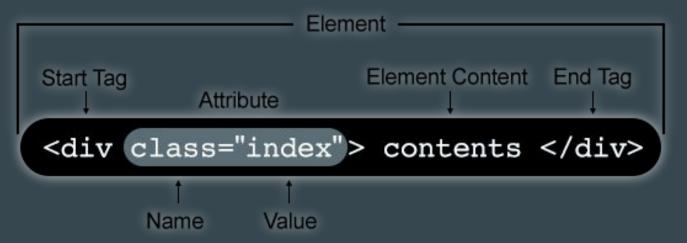
Things that you need to get started:-

- Any Code Editor
 - VS Code (Recommended)
 - Sublime Text
- A Browser
- Patience and Google to solve a lot of bugs!
 - Stackoverflow Supremacy

HyperText Markup Language

HTML is the most basic building block of the Web. It defines the meaning and structure of a web page.

HTML consists of elements which we use to enclose or mark-up different parts of the content.



Anatomy of HTML page,

Various Elements in HTML,

Attributes,

Block vs Inline elements,

...and much more

Let's Dive into Code!

Further Learning Resources:

MDN Docs: https://developer.mozilla.org/en-US/docs/Learn/HTML

W3Schools Docs: https://www.w3schools.com/html/default.asp

More HTML Elements: https://www.w3schools.com/tags/default.asp

Dive into your Browser Dev Tools

Advanced Topics:

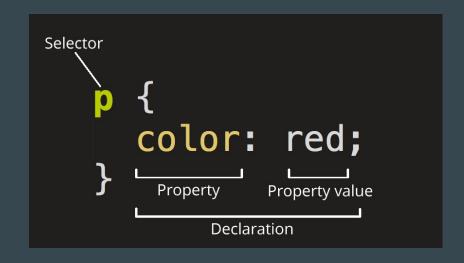
HTTP, DNS
HTTP Methods, HTML Forms
Semantic HTML

Cascading Style Sheets

CSS is a **style** sheet language used for describing the **presentation** of an HTML document. It describes the browser how HTML elements should be **displayed**.

Ways of writing CSS:

- Inline CSS
- Inside <style> tag
- In external file (preferred)



Linking CSS file, CSS Selectors, CSS Properties, CSS Units, ...and much more

Let's Dive into Code!

Some useful basic CSS Properties:

```
color
background-color, background-image
font-size, font-family, font-weight
margin
padding
border: border-width, border-color, border-style, border-radius
width, height
align-content, align-items, text-align
box-shadow
```

Further Learning Resources:

MDN Docs: https://developer.mozilla.org/en-US/docs/Web/CSS

W3Schools Docs: https://www.w3schools.com/css/

All CSS Selectors: https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Selectors

All CSS Units: https://www.w3schools.com/cssref/css_units.asp

Advanced Topics:

Layouts - Flexbox and Grid Positioning - Absolute, Relative Responsive Design & Media Queries Box Model
Pseudo classes (hover, active etc.)
CSS Animations

Thank You

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