🌐 Web Development Study Guide

Topics Covered: HTML • CSS • JavaScript
Level: Beginner to Intermediate

▨ HTML: Structure Your Content

Key Elements

Error! Filename not specified.

Semantic Tags

- , , , , ,

Example

[Visit Example](#)

🎨 CSS: Style Your Pages

Selectors

- element, .class, #id, *, :hover, :nth-child()

Common Properties

```
color
background
margin
padding
display
```

Example

h1 { color: navy; text-align: center; }

⚙ JavaScript: Add Interactivity

Core Concepts

- **Variables:** `let`, `const`, `var`
- **Functions:** `function`, arrow functions `() => {}`
- **DOM Access:** `getElementById`, `querySelector`
- **Events:** `click`, `submit`, `keydown`

Example

document.getElementById("btn").addEventListener("click", () => { alert("Button clicked!"); });

☐ Practice Exercises

HTML

1. Create a simple webpage with a heading, paragraph, and image.
2. Add a form with name and email fields.

CSS

1. Style the form with padding and background color.
2. Make the heading centered and bold.

JavaScript

1. Add a button that changes the background color when clicked.
2. Create a function that validates the form input.

🧠 Study Tips

- Build mini-projects like a portfolio or to-do list.
- Use [MDN Web Docs](#) for reference.
- Practice daily and debug with `console.log()`.