



CSS (Cascading Style Sheets) Roadmap

☑1. Introduction to CSS

- What is CSS?
- Ways to apply CSS:
 - Inline: `<h1 style="color:red;">`
 - Internal: Inside `<style>` tag
 - External: Linked `.css` file

☑2. CSS Syntax and Selectors

- **Basic syntax:**

```
selector {  
    property: value;  
}
```

- **Selectors:**
 - Element: `h1 {}`
 - Class: `.box {}`
 - ID: `#header {}`
 - Grouping: `h1, p {}`
 - Descendant/child: `.parent .child {}`
 - Pseudo-classes: `:hover`, `:first-child`, etc.

☑3. CSS Properties

Text and Font

- `color`, `font-family`, `font-size`, `font-weight`, `text-align`, `text-decoration`, etc.

Box Model

- margin, padding, border, width, height
- Understand how content, padding, border, and margin work

Backgrounds and Borders

- background-color, background-image, border-radius

Display & Positioning

- display: block, inline, inline-block, none, flex, grid
- position: static, relative, absolute, fixed, sticky
- z-index

Flexbox (Responsive Layouts)

- display: flex
- justify-content, align-items, flex-direction

Grid (Advanced)

- display: grid
- grid-template-columns, grid-template-rows

☒4. Responsive Design

- Media Queries:

```
@media (max-width: 768px) {  
  body {  
    background: lightgray;  
  }  
}
```

- Mobile-first design
- Viewport settings:

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

☒5. CSS Best Practices

- Use classes instead of IDs for styling
- DRY code (Don't Repeat Yourself)

- Organize CSS in logical sections
- BEM Naming convention (Block__Element--Modifier)

Bootstrap Roadmap (Currently Bootstrap 5.3)

☑1. Setup Bootstrap

- Via CDN:

```
html
CopyEdit
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap
.min.css" rel="stylesheet">
```

☑2. Bootstrap Layout System

- **Containers:** .container, .container-fluid
- **Grid system:**
 - o 12-column system
 - o Rows and columns: .row, .col, .col-md-6, etc.
 - o Responsive breakpoints: sm, md, lg, xl, xxl

☑3. Utility Classes

- Spacing: .m-3, .p-2, .mt-5, etc.
- Colors: .text-primary, .bg-success
- Text: .text-center, .text-uppercase
- Display: .d-flex, .d-none, .d-grid

☑4. Components

- Buttons: .btn, .btn-primary, .btn-outline
- Alerts: .alert, .alert-success
- Cards: .card, .card-body, .card-title
- Navbar: .navbar, .navbar-brand, .nav-link
- Forms: .form-group, .form-control, .form-check
- Modals, Carousels, Tooltips

☑5. Bootstrap Icons

- Add via CDN or NPM: <https://icons.getbootstrap.com>

☑6. Bootstrap with Custom CSS

- Override Bootstrap classes with your own CSS
- Use utility classes with custom styles

🔗 Final Project Ideas to Practice:

- 🔗 Simple blog layout using HTML + CSS
- 🔗 Portfolio website using Bootstrap
- 🔗 Responsive landing page with Flexbox/Grid
- 🔗 E-commerce homepage using Bootstrap components

Would you like me to send you a **starter template** or help you build a mini project with HTML + CSS + Bootstrap to practice?