

1. Introduction to CSS Layout

Exercise 1 — Box Model Practice

Goal: Style the card using the box model.

Hint: Use → `width`, `padding`, `margin`, `border`, `background-color`

HTML:

- `<div class="card">`
 - `<h2>Welcome</h2>`
 - `<p>This is a simple card component.</p>`
 - `</div>`
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Exercise 2 — Inline vs Block

Goal: Turn menu items into horizontal blocks.

Hint: Use → `display: inline-block`, `padding`, `margin`

HTML:

- `<div class="menu">`
 - `<p>Home</p>`
 - `<p>About</p>`
 - `<p>Contact</p>`
 - `</div>`
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2. Positioning Elements

Exercise 3 — Absolute Position Badge

Goal: Position a badge on the top-right of an icon.

Hint: Use →

- For container: `position: relative`
- For badge: `position: absolute, top, right, background-color, border-radius`

HTML:

- `<div class="icon">`
 - ``
 - `5`
 - `</div>`
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Exercise 4 — Sticky Header

Goal: Make header stick on scroll.

Hint: Use → `position: sticky, top, background-color, padding`

HTML:

- `<header class="header">`
- `<h1>My Website</h1>`
- `</header>`
- `<p>Lots of content here...</p>`
- `<p>Keep scrolling...</p>`
- `<p>More scrolling...</p>`

3. Layout with Display & Position

Exercise 5 — Hide/Show Elements

Goal: Hide one element (but keep space), remove the other completely.

Hint:

- `.one` should use → `visibility: hidden`
- `.two` should use → `display: none`

HTML:

- `<p class="one">This text should be invisible but still take space.</p>`
 - `<p class="two">This text should disappear entirely.</p>`
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Exercise 6 — Inline-block Gallery

Goal: Make boxes appear in a row.

Hint: Use → `display: inline-block, width, height, margin, background-color`

HTML:

- `<div class="box"></div>`
 - `<div class="box"></div>`
 - `<div class="box"></div>`
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4. Flexbox Layout

Exercise 7 — Center Content with Flexbox

Goal: Center text both horizontally and vertically.

Hint: Use →

- `display: flex`
- `justify-content: center`
- `align-items: center`
- `height`

HTML:

- `<div class="container">`
 - `<p>Hello Flexbox</p>`
 - `</div>`
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Exercise 8 — Flexible Navigation Bar

Goal: Space nav items evenly.

Hint: Use →

- `display: flex`
- `justify-content: space-between`
- `padding, background-color`

HTML:

- `<nav class="nav">`
 - `<a>Home`
 - `<a>Services`
 - `<a>Contact`
 - `</nav>`
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Exercise 9 — Flexbox Cards

Goal: Cards in a row with wrapping.

Hint: Use →

- `display: flex`
- `flex-wrap: wrap`
- `gap or margin`
- `width on .card`

HTML:

- <div class="cards">
 - <div class="card">Card 1</div>
 - <div class="card">Card 2</div>
 - <div class="card">Card 3</div>
 - </div>
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5. CSS Grid

Exercise 10 — 3-Column Grid

Goal: Create 3 equal columns.

Hint: Use →

- display: grid
- grid-template-columns: repeat(3, 1fr)
- gap, padding, border

HTML:

- <div class="grid">
 - <div class="item">1</div>
 - <div class="item">2</div>
 - <div class="item">3</div>
 - <div class="item">4</div>
 - <div class="item">5</div>
 - <div class="item">6</div>
 - </div>
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Exercise 11 — Header/Sidebar/Main/Footer Layout

Goal: Build a full page grid layout.

Hint: Use →

- `display: grid`
- `grid-template-areas`
- `grid-template-columns`
- `grid-template-rows`

HTML:

- `<div class="layout">`
 - `<header>Header</header>`
 - `<aside>Sidebar</aside>`
 - `<main>Main Content</main>`
 - `<footer>Footer</footer>`
 - `</div>`
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6. Responsive Design

Exercise 12 — Responsive Image

Goal: Make an image scale within its container.

Hint: Use →

- `max-width: 100%`
- `height: auto`

HTML:

- ``
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Exercise 13 — Mobile-first Columns

Goal: 1 column on mobile, 3 columns on desktop.

Hint: Use →

- `display: grid`
- `grid-template-columns`
- Media query: `@media (min-width: 768px)`

HTML:

- `<div class="container">`
- `<div class="box">A</div>`

- `<div class="box">B</div>`
 - `<div class="box">C</div>`
 - `</div>`
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Exercise 14 — Responsive Navbar

Goal: Vertical on mobile → Horizontal on desktop.

Hint:

- Mobile (default): `display: block`
- Desktop (600px+): `display: flex, justify-content`

HTML:

- `<nav class="nav">`
- `<a>Home`
- `<a>About`
- `<a>Contact`
- `</nav>`