

7-Day CSS Learning Plan (Detailed and Practical)

This plan ensures you cover both theory and practice daily for an hour.

Day 1: CSS Fundamentals

Topics to Cover:

- What is CSS? How it works with HTML.
- CSS Syntax: Rules, properties, and values.
- **Selectors:**
 - Basic Selectors: Element (`div`), Class (`.class`), ID (`#id`).
 - Grouping and Universal Selectors (`*`).
- **Basic Properties:**
 - Text: `color` , `font-family` , `font-size` , `text-align` , `line-height` .
 - Background: `background-color` , `background-image` .
- Adding CSS to HTML:
 - Inline, Internal (`<style>`), External (`<link>`).

Practical Task:

1. Create a simple webpage with a title, paragraph, and an image.
2. Style the text, set the background color, and add a unique font.

Tools & Resources:

- Google Fonts (fonts.google.com)
- [MDN: CSS Basics](#)

Day 2: Box Model

Topics to Cover:

- Box Model Components:
 - `margin` , `border` , `padding` , `content` .
- Width & Height Properties:
 - `width` , `height` , `max-width` , `max-height` .

- border : Width, style, and color.
- Overflow control: `overflow` , `overflow-x` , `overflow-y` .

Practical Task:

1. Build a card layout with a title, image, and description.
2. Use margins and padding to space elements properly.
3. Add borders with rounded corners.

Resources:

- [MDN: Box Model](#)

Day 3: Positioning and Flexbox Basics

Topics to Cover:

- Positioning:
 - `static` (default), `relative` , `absolute` , `fixed` , `sticky` .
 - Use `top` , `right` , `bottom` , `left` with positioning.
- **Flexbox Basics:**
 - `display: flex` and `flex-direction` (row, column).
 - Align Items:
 - `justify-content` (center, space-between, etc.).
 - `align-items` (center, stretch).

Practical Task:

1. Create a navigation bar with Flexbox.
2. Create a simple header with text centered vertically and horizontally.

Resources:

- [CSS-Tricks: Flexbox Guide](#)

Day 4: Advanced Layout with Grid

Topics to Cover:

- CSS Grid:
 - Define Grid Container: `display: grid` , `grid-template-columns` , `grid-template-rows` .
 - Placing Items: `grid-column` , `grid-row` , `gap` .
- Nesting Grids.
- Grid vs. Flexbox comparison.

Practical Task:

1. Create a 3x3 image gallery using CSS Grid.
2. Add spacing (`gap`) between images.

Resources:

- [MDN: CSS Grid](#)

Day 5: Pseudo-classes, Pseudo-elements, and Transitions

Topics to Cover:

- **Pseudo-classes:**
 - `:hover` , `:focus` , `:nth-child` , `:first-child` , `:last-child` .
- **Pseudo-elements:**
 - `::before` , `::after` , `::placeholder` .
- **Transitions:**
 - `transition` property: Add smooth animations for `color` , `background` , etc.

Practical Task:

1. Create a button with hover and focus effects.
2. Use pseudo-elements (`::before` and `::after`) to add decorative elements to a section.
3. Apply transitions to create smooth hover effects.

Resources:

- [MDN: CSS Pseudo-classes](#)

Day 6: Responsive Design

Topics to Cover:

- Media Queries:
 - `@media` for different screen sizes.
 - Breakpoints (`min-width` , `max-width`).
- Units:
 - Absolute (`px` , `pt`).
 - Relative (`%` , `em` , `rem` , `vw` , `vh`).
- Flexbox and Grid in Responsive Layouts.
- Mobile-First Design.

Practical Task:

1. Make an existing layout responsive using media queries.
2. Use percentage-based widths for a flexible design.

Resources:

- [Responsive Design Basics](#)

Day 7: Advanced Techniques and Project

Topics to Cover:

- CSS Variables:
 - Define and use variables (`--main-color` , `var(--main-color)`).
- Advanced Animations:
 - `@keyframes` and `animation` property.
- Combining Flexbox, Grid, and Media Queries.

Practical Task:

1. Build a portfolio or landing page:
 - Use Grid for the main layout.
 - Use Flexbox for internal components.
 - Add responsive styles with media queries.
 - Include animations for buttons and hover effects.

Bonus:

- Experiment with advanced pseudo-classes like `:nth-child(even)` and animations.

Resources:

- [CSS Animation Guide](#)

Tips for Success

1. Spend 10 minutes reviewing yesterday's topics before starting a new day.
2. Save all your practice files and revisit them to see your progress.
3. Use online sandboxes like [CodePen](#) or [JSFiddle](#) for quick experimentation.

Let me know if you'd like project ideas or additional resources for any specific day!