

# The Practical CSS Layout Decision Checklist

Use this guide to quickly decide whether CSS Grid or Flexbox is the right tool for your layout task.

# **Part 1: The Core Decision (Start Here)**

First, answer this fundamental question about your layout needs:

Am I arranging items along a SINGLE axis (either in a row OR a column)?

- **Examples:** A navigation bar, a list of form fields, a row of buttons, aligning an icon next to text.
- Your Goal: To control the alignment, spacing, and order of items in one dimension.

If YES -> Your choice is FLEXBOX. Proceed to Part 2.

Am I arranging items across TWO axes (in rows AND columns at the same time)?

- **Examples:** The entire page structure (header, sidebar, main, footer), a gallery of images, a complex dashboard with multiple widgets, a card-based grid that reflows.
- Your Goal: To create a strict grid structure and control the placement of items in both dimensions simultaneously.

If YES -> Your choice is GRID. Proceed to Part 3.

# Part 2: Flexbox Quick Reference

You've determined you need a one-dimensional layout. Here's what to remember.

#### **Common Use Cases:**

- Navigation menus
- Aligning items within a component (e.g., buttons in a card footer)
- Form controls
- Distributing a set of items along a single line
- Vertical centering of a single item

#### **Key flex-container Properties:**

display: flex; - The essential starting point.



- flex-direction: row | column; Defines your single axis of alignment.
- justify-content: ...; Controls alignment and spacing along the main axis.
- align-items: ...; Controls alignment across the cross-axis.
- flex-wrap: wrap; Allows items to move to the next line if they run out of space.
- gap: [value]; The modern way to add space between flex items.

### Part 3: Grid Quick Reference

You've determined you need a two-dimensional layout. Here are your core tools.

#### **Common Use Cases:**

- Overall page layouts
- Complex dashboards and application interfaces
- Responsive card or image galleries
- Any design that requires precise control over both rows and columns

#### **Key grid-container Properties:**

- display: grid; The essential starting point.
- grid-template-columns: ...; Defines the number and size of your columns. (Use the fr unit for flexible tracks!)
- grid-template-rows: ...; Defines the number and size of your rows.
- gap: [value]; The perfect way to create space between grid cells.
- grid-template-areas: "..."; A powerful, semantic way to define named regions in your layout.

## Part 4: Pro-Tips & Best Practices

- **Combine Them!** The most powerful layouts use both. Use **Grid** for the overall page structure and **Flexbox** to align the items inside each grid area.
- Content vs. Layout: A simple rule of thumb: let Flexbox arrange your *content*, and let Grid define the *layout* it lives in.
- **Embrace gap:** The gap property is your best friend for creating gutters and spacing. It works consistently in both Grid and Flexbox in all modern browsers.
- Plan for Responsiveness: Use Grid's repeat(auto-fit, minmax(value, 1fr)) pattern for automatically responsive grids without needing media queries.