



Agenda

- Wireframing and Layout Planning.
- Flexbox Fundamentals.
- Flexbox Alignment.
- CSS Reset.



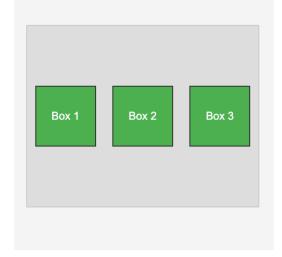


Introduction to Flexbox & CSS Reset



- Learn how to plan layouts using wireframes.
- **■** Build responsive layouts with Flexbox.
- Use CSS reset stylesheets for consistency.





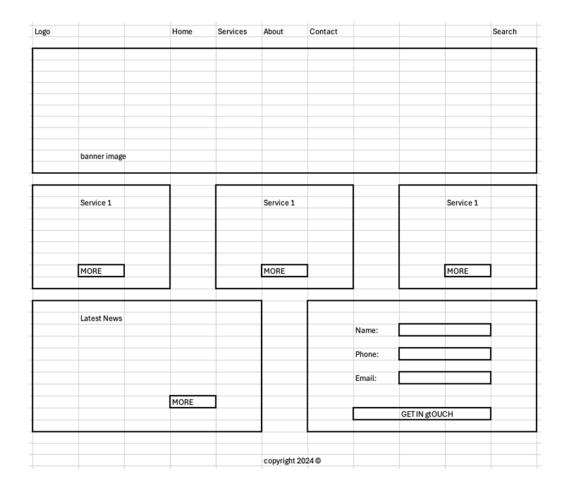


Wireframing and Layout Planning

- **Definition:** Wireframing helps visually design website structures before coding.
- Tools:

Microsoft Excel / Google Sheets (simple grid-based planning).

- Helps organize headers, content sections, and footers.
- **Example:** Plan a 3x3 grid for website layout.





Flexbox Basics

- **Definition:** Flexbox is a CSS layout tool for responsive designs.
- It allows you to align elements dynamically across different screen sizes.
- **Example:** Items inside .container align dynamically. They now follow Flexbox rules for alignment and positioning.

```
.container {
  display: flex;
}
```



Flex-Direction

- Controls the direction of items in a flex container.
 - row (default) → Horizontal layout.
 - lacktriangledown column ightarrow Vertical layout.
 - lacktriangledown row-reverse ightarrow Reverses items horizontally.
 - column-reverse → Reverses items vertically.

```
.container {
   display: flex;
   flex-direction: column;
}
```

```
.container {
  flex-direction: row;
}
```



Flex-Wrap

- By default, Flexbox tries to fit items on a single line.
- Controls whether flex items wrap to a new line.
 - nowrap → Items stay on one line.
 - wrap → Items wrap if they overflow.
 - **■** wrap-reverse → Items wrap in reverse order.

```
.container {
   display: flex;
   flex-wrap: wrap;
}
```



Flexbox Alignment - Main Axis

- justify-content aligns flex items along the main axis (horizontal if flex-direction: row, vertical if flex-direction: column).
 - $flex-start \rightarrow Aligns to start.$
 - center → Centers items.
 - **space-between** → Equal spacing between items.
 - **space-around** → Equal spacing around items.

```
.container {
   display: flex;
   justify-content: center;
}
```



Flexbox Alignment - Cross Axis

- align-items aligns items along the cross axis (perpendicular to the main axis).
 - $flex-start \rightarrow Aligns$ items at the top.
 - center → Aligns items vertically.
 - stretch → Stretches items to fit the container.

Tip: Understanding the axes helps you control alignment using justify-content (main axis) and align-items (cross axis).

```
.container {
   display: flex;
   align-items: center;
}
```



CSS Reset - Why It Matters

- **Definition:** Removes inconsistent default browser styles.
- **■** Purpose:
 - Standardizes styling across browsers.
 - Prevents unintended design quirks.
- Different browsers have their own default styles for elements (e.g., margins, padding).
- A reset stylesheet creates a clean slate, avoiding unintended design quirks.

```
/* CSS Reset */

/* Remove default margin and padding */

* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

/* Set default font size and line height */
html {
    font-size: 100%;
    /* Default font size of 16px */
    line-height: 1.5;
}
```



How to Implement CSS Reset

- **■** Popular resets:
 - Normalize.css
 - **■** Eric Meyer's Reset CSS
- Usage: Add the reset stylesheet at the beginning of your CSS file or often a separate CSS file.

```
/* Include reset before your styles */
@import url("normalize.css");
```



Conclusion and Q&A

■ Key Takeaways:

- Wireframing helps plan layouts visually.
- Value of the property of
- CSS reset prevents inconsistent browser styles.



- Wireframe Beginner's Guide: https://blog.hubspot.com/website/website-wireframe
- CSS Tricks: https://css-tricks.com/snippets/css/a-guide-to-flexbox/