

Building Layouts Before Flexbox

Learning Objectives

By the end of this lab, students will be able to:

- Create multi-column layouts using traditional CSS (floats and inline-block).
- Understand layout limitations before Flexbox.
- Compare fixed, inline-block, and float techniques.
- Recognize alignment and spacing challenges.

Lab Setup

Please edit and preview the following **starter HTML file**.

You should try to make sections behave like a simple web page: header, navigation, content area, sidebar, and footer — all without flex which we will discuss in another session.

Your Task

1. **Task 1:** Use display: inline-block to align the navigation links horizontally.
2. **Task 2:** Float the main article and sidebar to create a two-column layout.
3. **Task 3:** Add a footer that stays below the floated elements.
4. **Task 4 (Challenge):** Add a media query to stack the article and sidebar on small screens.
5. **Task 5 (Reflection):**
 - What's hard about aligning and spacing these elements?
 - How does the layout behave when content size changes?
 - What happens if you remove overflow: auto from main?

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Pre-Flexbox Layout Lab</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
    }

    /* 1 Header */
    header {
      background: #2c3e50;
      color: white;
      padding: 15px;
      text-align: center;
    }

    /* 2 Navigation using inline-block */
    nav {
      background: #34495e;
      padding: 10px;
      text-align: center;
    }

    nav a {
      display: inline-block;
      color: white;
      text-decoration: none;
      padding: 10px 20px;
      background: #3b5998;
      margin: 5px;
    }

    nav a:hover {
      background: #2b4162;
    }

    /* 3 Main content area using floats */
    main {
      overflow: auto; /* clears floated elements */
      padding: 10px;
      background: #ecf0f1;
    }

    article {
      float: left;
      width: 70%;
      background: white;
      padding: 20px;

```

```

        box-sizing: border-box;
    }

    aside {
        float: right;
        width: 25%;
        background: #bdc3c7;
        padding: 20px;
        box-sizing: border-box;
    }

    /* 4 Footer using block layout */
    footer {
        clear: both;
        background: #2c3e50;
        color: white;
        text-align: center;
        padding: 15px;
        margin-top: 10px;
    }

    /* 5 Challenge: Responsive behavior (optional) */
    @media (max-width: 700px) {
        article, aside {
            float: none;
            width: 100%;
        }
    }
</style>
</head>
<body>

    <header>
        <h1>Pre-Flexbox Layout</h1>
    </header>

    <nav>
        <a href="#">Home</a>
        <a href="#">About</a>
        <a href="#">Services</a>
        <a href="#">Contact</a>
    </nav>

    <main>
        <article>
            <h2>Main Content</h2>
            <p>This is the main content area. Notice that we use <strong>float:
left</strong> to position it next to the sidebar. Without Flexbox, alignment and equal
height are difficult to achieve.</p>
        </article>

        <aside>
            <h3>Sidebar</h3>
            <p>This sidebar uses <strong>float: right</strong>. Try resizing the
window – notice how it behaves before the media query kicks in.</p>
        </aside>
    </main>

    <footer>
        <p>Footer Area – aligned using traditional block layout.</p>
    </footer>

```

```
</body>  
</html>
```