

# INTERNSHIP REPORT

## WEEK 2 DAY 5

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## CSS Display and Positioning

### Objective of the Day

To understand and apply the different display and position properties in CSS to control how elements appear and are placed within a webpage layout.

### Introduction to CSS

Today's session focused on two fundamental layout concepts in CSS: **Display** and **Positioning**. These properties allow developers to control the visual structure and placement of elements on a webpage.

- The display property defines how an element is rendered in the document flow (e.g., block, inline, flex, grid).
- The position property controls how elements are positioned within their parent or relative to the viewport (e.g., static, relative, absolute, fixed).

We built real-world examples like a **Bookshelf (using Position)** and a **Photo Gallery (using Display)** to solidify these concepts.

### Key Concepts Learned

- **CSS Display Property:**
  - **block:** Makes the element start on a new line and take full width.
  - **inline:** Displays elements on the same line without breaking the flow.
  - **inline-block:** Like inline, but allows width and height to be set.

- **none:** Hides the element completely.
- **flex:** Makes the container a flex container for dynamic layouts.
- **CSS Position Property:**

Property	Description
<b>static</b>	Default position. Elements follow the normal flow of the page.
<b>relative</b>	Shifts element relative to its original position.
<b>absolute</b>	Positions the element relative to its nearest positioned ancestor.
<b>fixed</b>	Fixes the element to the viewport. It stays in place even when scrolling.

## 1. Example of CSS Display:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>CSS Display Property Gallery</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      padding: 20px;
      background: #f5f5f5;
      max-width: 1200px;
      margin: 0 auto;
    }

    h2 {
      text-align: center;
      margin: 30px 0 15px;
    }

    .gallery-container {
      margin-bottom: 40px;
      padding: 20px;
      background: white;
      border-radius: 8px;
      box-shadow: 0 2px 5px rgba(0,0,0,0.1);
    }
  </style>
</head>
<body>
```

```
.description {
  text-align: center;
  margin-bottom: 15px;
  color: #666;
  font-style: italic;
}

/* Common photo styles */
.photo {
  width: 150px;
  height: 150px;
  border: 3px solid #333;
  background-size: cover;
  background-position: center;
}

.photo1 { background-image: url("matthew-stephenson-bypJE3Fxpaw-
unsplash.jpg"); }
.photo2 { background-image: url("david-clode-RXgppKMrD-U-unsplash.jpg"); }
.photo3 { background-image: url("mateusz-szerszynski-NYAqPt992Gw-
unsplash.jpg"); }
.photo4 { background-image: url("we-care-wild-R82yGE10_zQ-unsplash\
(1\).jpg"); }

/* Flex Gallery */
.flex-gallery {
  display: flex;
  flex-wrap: wrap;
  gap: 10px;
  justify-content: center;
}

/* Grid Gallery */
.grid-gallery {
  display: grid;
  grid-template-columns: repeat(auto-fill, minmax(150px, 1fr));
  gap: 10px;
}

/* Inline-block Gallery */
.inline-block-gallery {
  font-size: 0; /* Remove whitespace between inline-block elements */
  text-align: center;
}
```

```

.inline-block-gallery .photo {
  display: inline-block;
  margin: 5px;
  font-size: 16px; /* Reset font size for content */
}

/* Block Gallery */
.block-gallery .photo {
  display: block;
  margin: 10px auto;
}
</style>
</head>
<body>

  <div class="gallery-container">
    <h2>Flex Display Gallery</h2>
    <p class="description">Using display: flex with flex-wrap and justify-content</p>
    <div class="flex-gallery">
      <div class="photo photo1"></div>
      <div class="photo photo2"></div>
      <div class="photo photo3"></div>
      <div class="photo photo4"></div>
    </div>
  </div>

  <div class="gallery-container">
    <h2>Grid Display Gallery</h2>
    <p class="description">Using display: grid with responsive columns</p>
    <div class="grid-gallery">
      <div class="photo photo1"></div>
      <div class="photo photo2"></div>
      <div class="photo photo3"></div>
      <div class="photo photo4"></div>
    </div>
  </div>

  <div class="gallery-container">
    <h2>Inline-block Display Gallery</h2>
    <p class="description">Using display: inline-block with text-align center</p>
    <div class="inline-block-gallery">
      <div class="photo photo1"></div>
      <div class="photo photo2"></div>
    </div>
  </div>

```

```

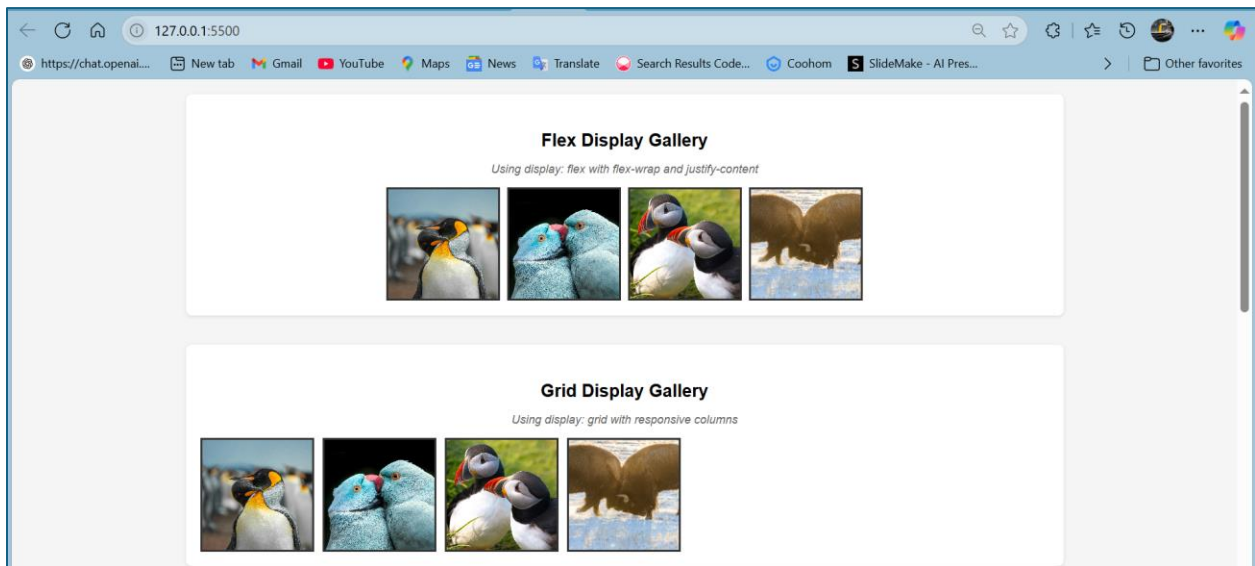
<div class="photo photo3"></div>
<div class="photo photo4"></div>
</div>
</div>

<div class="gallery-container">
  <h2>Block Display Gallery</h2>
  <p class="description">Using display: block (default for divs)</p>
  <div class="block-gallery">
    <div class="photo photo1"></div>
    <div class="photo photo2"></div>
    <div class="photo photo3"></div>
    <div class="photo photo4"></div>
  </div>
</div>

</body>
</html>

```

## OUTPUT:



### Inline-block Display Gallery

Using display: inline-block with text-align center



### Block Display Gallery

Using display: block (default for divs)



## 2. Example of CSS Positioning:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>CSS Positioning - Bookshelf Example</title>
  <style>
```

```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  height: 1500px; /* To allow scrolling */
  background: #f5f5f5;
}

/* Fixed "Favorites" Label (Stays in Place) */
.favorites-label {
  position: fixed;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
  text-align: center;
  background: #3cdce7;
  color: black;
  padding: 10px 15px;
  border-radius: 5px;
  z-index: 1000;
}

/* Bookshelf container */
.bookshelf {
  position: relative;
  width: 500px;
  height: 350px;
  margin: 100px auto;
  background: #8B4513; /* Wooden color */
  border: 10px solid #5D2906;
  padding: 20px;
}

/* Common Book Styles (Square Size) */
.book {
  width: 150px;
  height: 150px;
  color: white;
  text-align: center;
  padding-top: 10px;
  box-shadow: 2px 2px 5px rgba(0, 0, 0, 0.3);
  font-weight: bold;
  box-sizing: border-box;
}
```

```
.desc {
  font-size: 12px;
  margin-top: 5px;
  background: rgba(0,0,0,0.2);
  color: white;
  padding: 2px;
}

/* Individual Books with Different Positioning */

/* Relative */
.book1 {
  position: relative;
  top: 0;
  left: 0;
  background: #3498db;
}

/* Absolute */
.book2 {
  position: absolute;
  left: 180px;
  top: 30px;
  background: #e74c3c;
}

/* Fixed */
.book3 {
  position: fixed;
  top: 100px;
  right: 200px;
  background: #2ecc71;
  z-index: 999;
}

/* Static */
.book4 {
  position: static;
  background: #f39c12;
  margin-top: 30px;
}

/* Static Book Description */
.book-description {
  margin: 30px auto;
```



```

        width: 500px;
        padding: 15px;
        background: lightsalmon;
        border: 1px solid #dddddd;
    }
</style>
</head>
<body>

<!-- Fixed "Favorites" Label -->
<div class="favorites-label">☆ Favorites Shelf</div>

<!-- Bookshelf (Relative container) -->
<div class="bookshelf">

    <div class="book book1">
        Relative Book
        <div class="desc">Moves relative to its normal position</div>
        <pre>position: relative;
top: 0;
left: 0;
</pre>
    </div>

    <div class="book book2">
        Absolute Book
        <div class="desc">Positioned relative to bookshelf</div>
        <pre>position: absolute;
left: 180px;
top: 30px;
</pre>
    </div>

<!-- Fixed Book (appears outside bookshelf) -->
<div class="book book3">
    Fixed Book
    <div class="desc">Stays at fixed viewport spot</div>
    <pre>position: fixed;
top: 100px;
right: 200px;
</pre>
</div>

<div class="book book4">
    Static Book

```

```

<div class="desc">Default positioning (no change)</div>
  <pre>position: static;
  top:auto;
  right:auto;
  </pre>
</div>

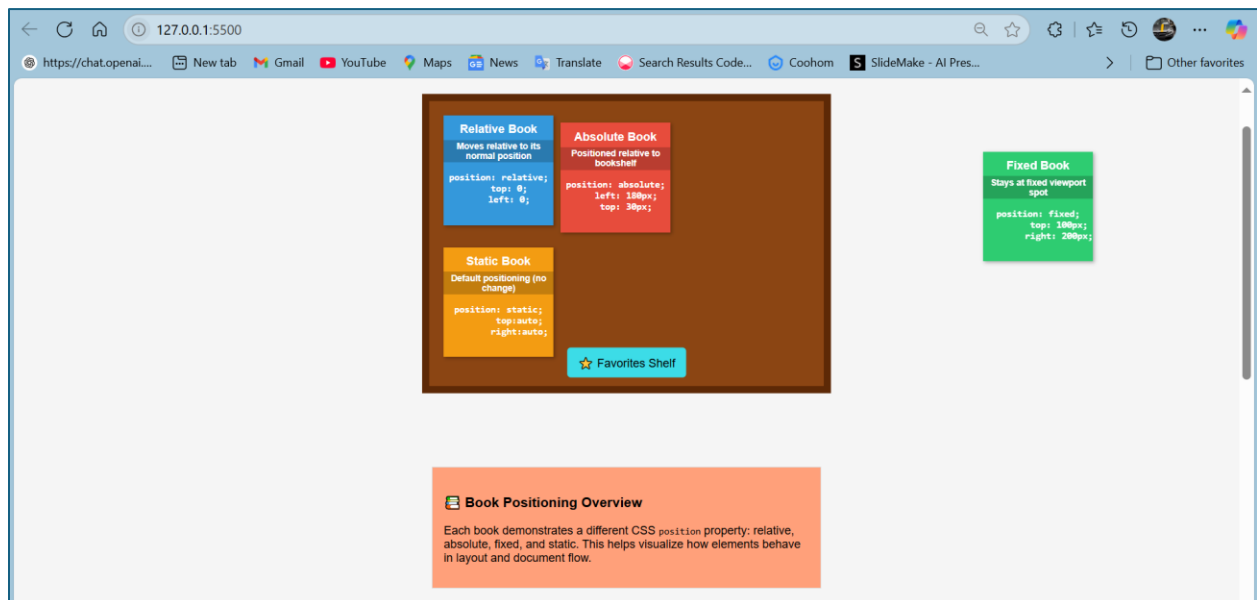
</div>

<!-- Static Book Description -->
<div class="book-description">
  <h3>📖 Book Positioning Overview</h3>
  <p>Each book demonstrates a different CSS <code>position</code> property:
  relative, absolute, fixed, and static. This helps visualize how elements
  behave in layout and document flow.</p>
</div>

</body>
</html>

```

## OUTPUT:



## Conclusion:

In summary, I have learned how to effectively use layout-controlling properties such as display and position in CSS. These tools are essential for organizing content, aligning elements, and building responsive web interfaces. By experimenting with real-world examples like a bookshelf and image gallery in VS Code, I understood how different display types (block, inline, flex, grid) and positioning methods (static, relative, absolute, fixed) affect page structure and element behavior. This hands-on experience improved my ability to combine design and layout logic, which is key to creating structured, user-friendly front-end applications.

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