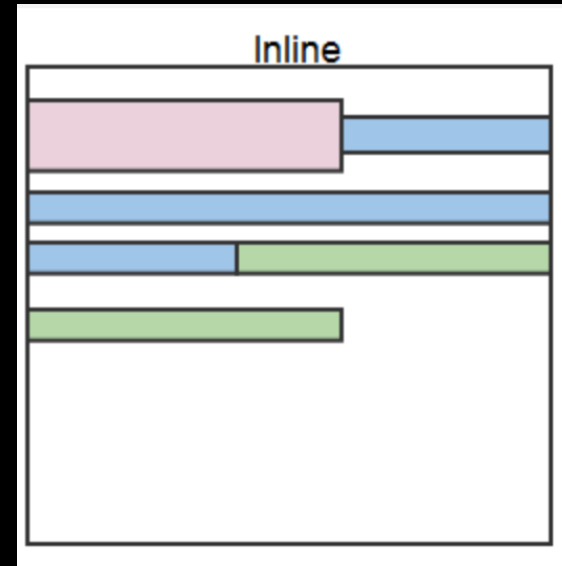
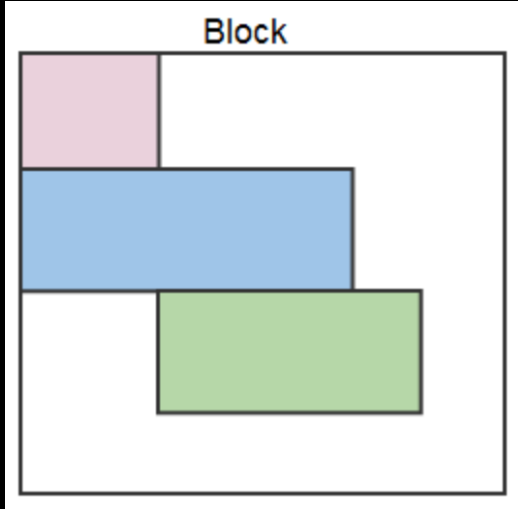


# Display Property (Block / Inline Elements)



## Block Elements

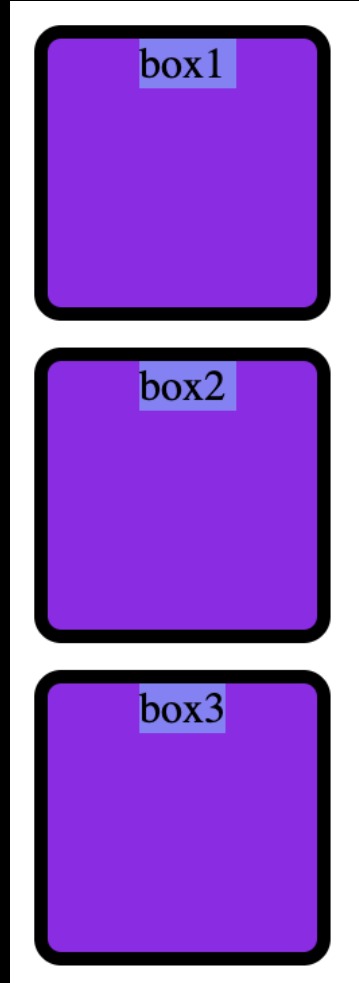
- **New Line:** Start on a new line.
- **Full Width:** Take up all horizontal space.
- **Styling:** Can have margins and padding.
- **Size:** Width and height can be set.
- **Examples:** `<div>`, `<p>`, `<h1>`, `<ul>`, `<li>`.

## Inline Elements

- **Flow:** Stay in line with text.
- **Width:** Just as wide as the content.
- **No Break:** No new line between elements.
- **Limited Styling:** Can't set size easily.
- **Examples:** `<span>`, `<a>`, `<strong>`, `<em>`.

# Display Property (Block)

```
.box {  
  height: 100px;  
  width: 100px;  
  background-color: blueviolet;  
  margin: 10px;  
  text-align: center;  
  border: 5px solid black;  
  border-radius: 10px;  
  
  display: block;  
}
```



```
<head>  
  <title>Display Block</title>  
  <link rel="stylesheet" href="../../css/  
    level 5/display.css">  
</head>  
<body>  
  <div id="parent">  
    <div id="div1" class="box">box1</div>  
    <div id="div2" class="box">box2</div>  
    <div id="div3" class="box">box3</div>  
  </div>  
</body>
```

# Display Property (Inline)

```
.box {  
  height: 100px;  
  width: 100px;  
  background-color: blueviolet;  
  margin: 10px;  
  text-align: center;  
  border: 5px solid black;  
  border-radius: 10px;
```

```
  display: inline;  
}
```

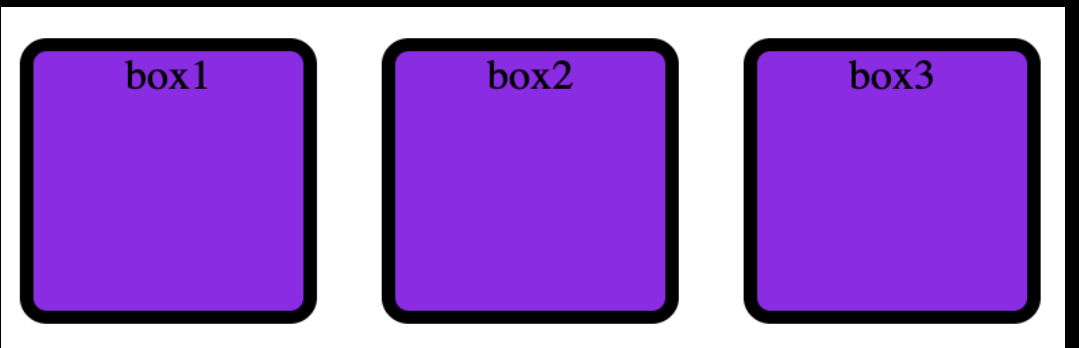
```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <title>Display Inline</title>  
  <link rel="stylesheet" href="../../css/  
    level 5/display_inline.css">  
</head>  
<body>  
  <div id="parent">  
    <div id="div1" class="box">box1</div>  
    <div id="div2" class="box">box2</div>  
    <div id="div3" class="box">box3</div>  
  </div>  
</body>  
</html>
```





# Display Property (Inline-Block)

```
.box {  
  height: 100px;  
  width: 100px;  
  background-color: ■blueviolet;  
  margin: 10px;  
  text-align: center;  
  border: 5px solid ■black;  
  border-radius: 10px;  
  
  display: inline-block;  
}
```

```
<head>  
  <title>Display Inline Block</title>  
  <link rel="stylesheet" href="../../css/  
    level 5/display_inline_block.css">  
</head>  
<body>  
  <div id="parent">  
    <div id="div1" class="box">box1</div>  
    <div id="div2" class="box">box2</div>  
    <div id="div3" class="box">box3</div>  
  </div>  
</body>
```

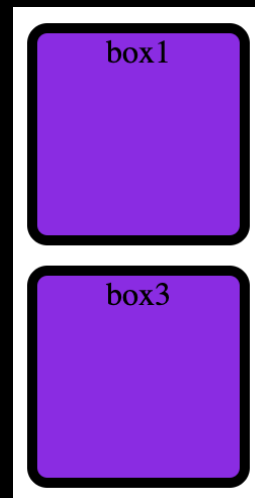


# Display Property (None)

```
.box {  
  height: 100px;  
  width: 100px;  
  background-color:  blueviolet;  
  margin: 10px;  
  text-align: center;  
  border: 5px solid  black;  
  border-radius: 10px;  
}
```

```
#div2 {  
  display: none;  
}
```

```
<head>  
  <title>Display None</title>  
  <link rel="stylesheet" href="../../css/  
    level 5/display_none.css">  
</head>  
<body>  
  <div id="parent">  
    <div id="div1" class="box">box1</div>  
    <div id="div2" class="box">box2</div>  
    <div id="div3" class="box">box3</div>  
  </div>  
</body>
```



# Relative Units



## CSS Units Cheat Sheet

**px**

Absolute pixel value

**%**

A percentage of the parent element.  
100% is the width of the parent element

**em**

Relative to the font size of the element

**vh**

Relative to 1% of the viewport's height

**rem**

Relative to the font size of  
the root element

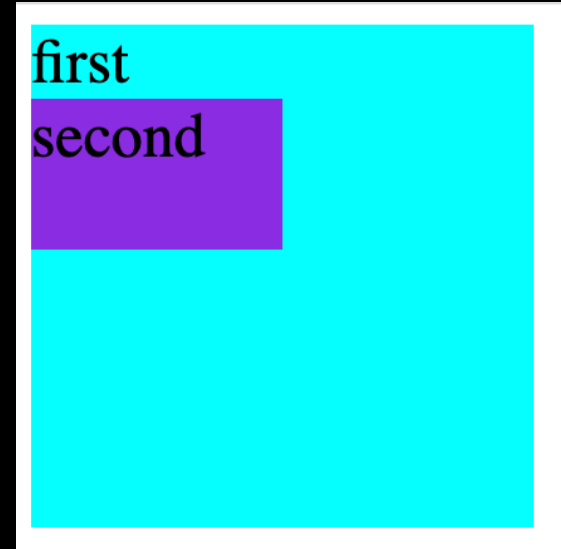
**vw**

Relative to 1% of the viewport's width

# Relative Units (Percentage)

```
#first {  
  height: 200px;  
  width: 200px;  
  background-color: ■ aqua;  
  font-size: 25px;  
}  
  
#second {  
  background-color: ■ blueviolet;  
  width: 50%;  
  height: 30%;  
}
```

```
<body>  
  <div id="first">  
    first  
    <div id="second">  
      second  
    </div>  
  </div>  
</body>
```



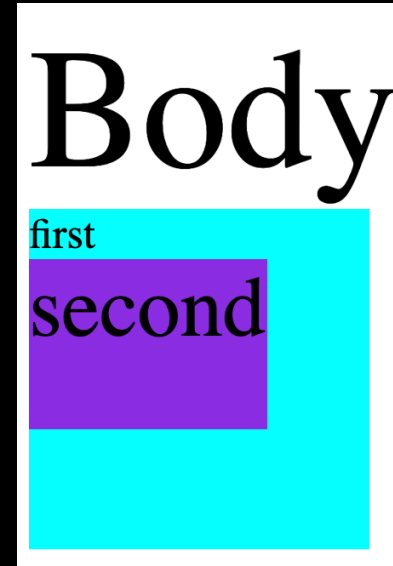
- **Relative Sizing:** Facilitates dynamic sizing **relative to parents**.
- **Adaptability:** Ensures **responsiveness** across various screens.
- **Dimensions:** Quickly set width and height as a percentage.

# Relative Units (EM)

```
body {  
  font-size: 100px;  
}  
  
#first {  
  height: 200px;  
  width: 200px;  
  background-color: aqua;  
  font-size: 25px;  
}
```

```
#second {  
  background-color: blueviolet;  
  width: 70%;  
  height: 50%;  
  font-size: 2em;  
}
```

```
<body>  
  Body  
  <div id="first">  
    first  
    <div id="second">  
      second  
    </div>  
  </div>  
</body>
```



- **Relative Unit:** Sized **relative to the parent** element's font size.
- **Scalability:** Facilitates easy **scaling** of elements for responsive design.
- **Font Sizing:** Commonly used for setting font sizes adaptively.



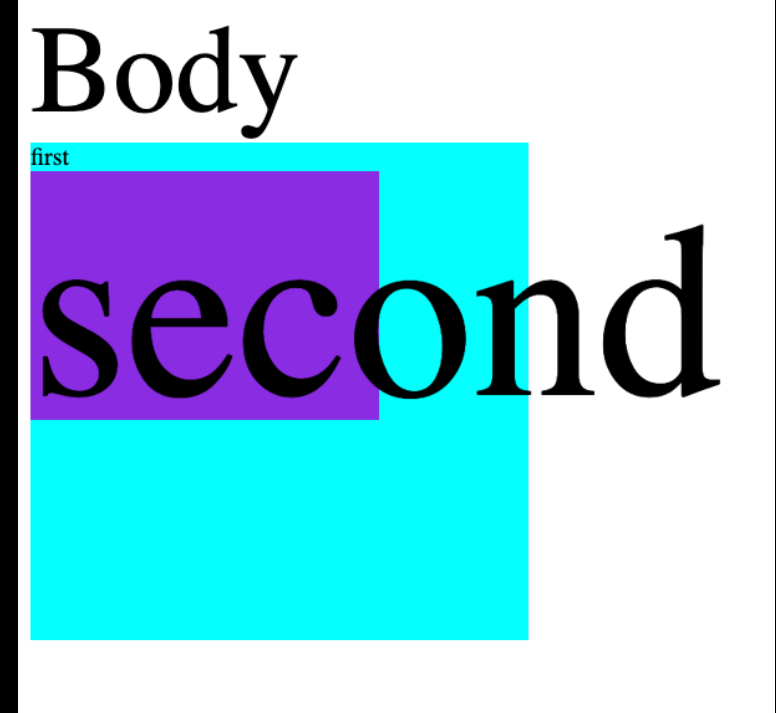
# Relative Units (REM)

```
* {
  font-size: 50px;
}

#first {
  height: 200px;
  width: 200px;
  background-color: aqua;
  font-size: 10px;
}

#second {
  background-color: blueviolet;
  width: 70%;
  height: 50%;
  font-size: 2rem;
}
```

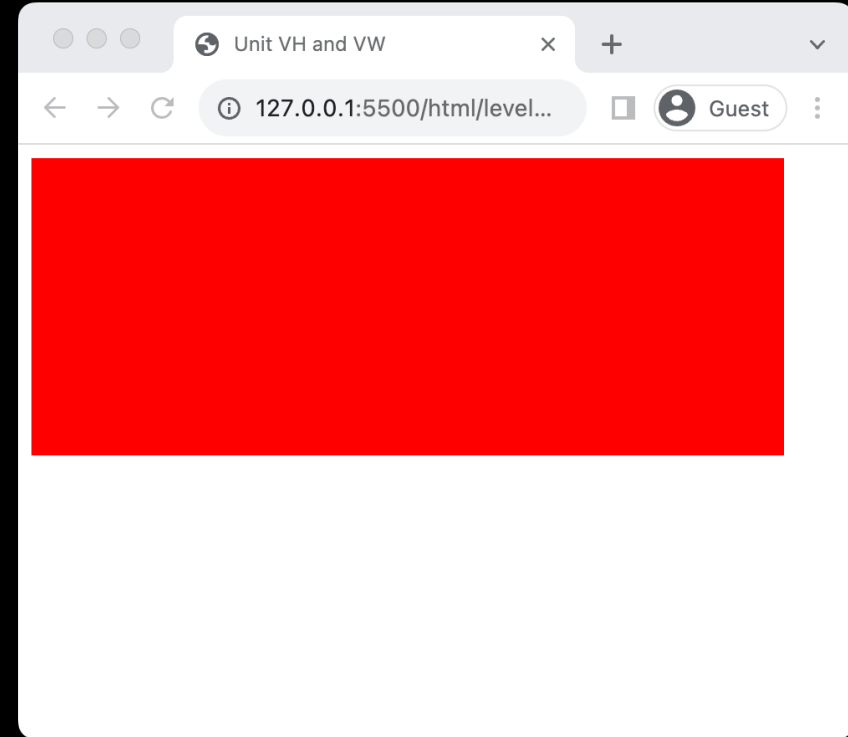
```
<body>
  Body
  <div id="first">
    first
    <div id="second">
      second
    </div>
  </div>
</body>
```



- **Relative Sizing:** Facilitates dynamic sizing **relative to root element**.
- **Adaptability:** Ensures **responsiveness** across various screens.
- **Dimensions:** Quickly set width and height as a percentage.

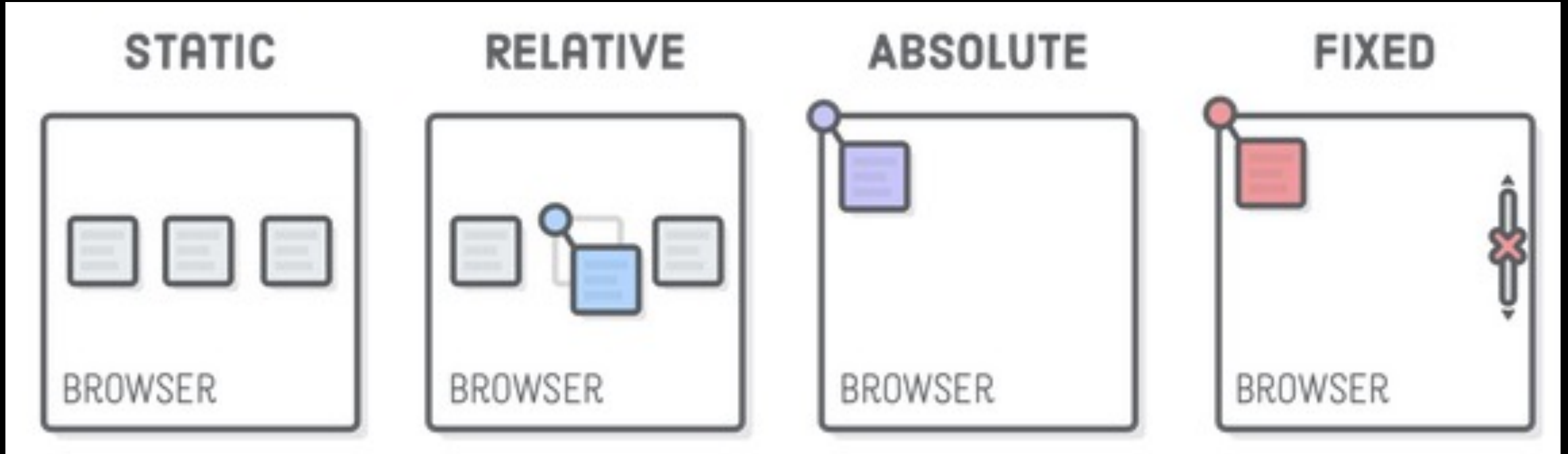
# Relative Units (vw/vh)

```
<head>
  <title>Unit VH and VW</title>
  <style>
    #first {
      height: 50vh;
      width: 90vw;
      background-color: red;
    }
  </style>
</head>
<body>
  <div id="first"></div>
</body>
```



- **Viewport Relative Units:** Units based on **viewport's width (vw)** or **height (vh)** for responsive design.
- **Responsive Layouts:** Essential for creating adaptive layouts; e.g., **height: 100vh** for full-screen sections.
- **Element Sizing:** Useful for defining heights and widths that **scale**

# Position Property

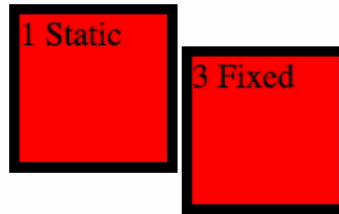


- **Static (default)** : Elements follow the normal document flow. (top, right, bottom, left, z-index would not work)
- **Relative**: Element's position adjusted from its normal position.
- **Absolute**: Positions element relative to the nearest positioned ancestor.
- **Fixed**: Element positioned relative to the viewport, does not move on scroll.

# Position Property

```
div {  
  height: 70px;  
  width: 70px;  
  background-color: red;  
  border: 5px solid black;  
  margin: 20px;  
}  
#div1 {  
  position: static;  
}  
#div2 {  
  position: relative;  
  top: 20px;  
  left: 90px;  
}  
#div3 {  
  position: fixed;  
  top: 20px;  
  left: 90px;  
}  
#div4 {  
  position: absolute;  
  top: 200px;  
  left: 200px;  
}
```

```
<head>  
  <title>Position</title>  
  <link rel="stylesheet" href="../../  
  css/level 5/positions.css">  
</head>  
<body>  
  <div id="div1">1 Static</div>  
  <div id="div2">2 Relative</div>  
  <div id="div3">3 Fixed</div>  
  <div id="div4">4 Absolute</div>  
</body>
```

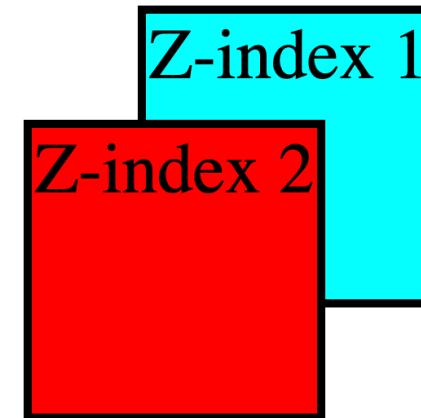


# Position Property (z index)

```
.container {  
  position: relative;  
}  
.box1, .box2 {  
  position: absolute;  
  border: 3px solid black;  
  width: 100px;  
  height: 100px;  
  text-align: center;  
  font-size: 25px;  
}  
.box1 {  
  background-color: red;  
  left: 20px;  
  top: 60px;  
  z-index: 2;  
}  
.box2 {  
  background-color: aqua;  
  left: 60px;  
  top: 20px;  
  z-index: 1;  
}
```

- **Stacking Order:** Determines the **stacking order** of elements along the Z-axis.
- **Position Context:** Only applies to elements with position set to relative, absolute, fixed, or sticky.
- **Integer Values:** Accepts **integer values**, including negative numbers.
- **Higher Values:** An element with a **higher z-index value appears above others**.

```
<head>  
  <title>Z-Index</title>  
  <link rel="stylesheet" href="../../css/  
    level 5/z-index.css">  
</head>  
<body>  
  <div class="container">  
    <div class="box1">Z-index 2</div>  
    <div class="box2">Z-index 1</div>  
  </div>  
</body>
```

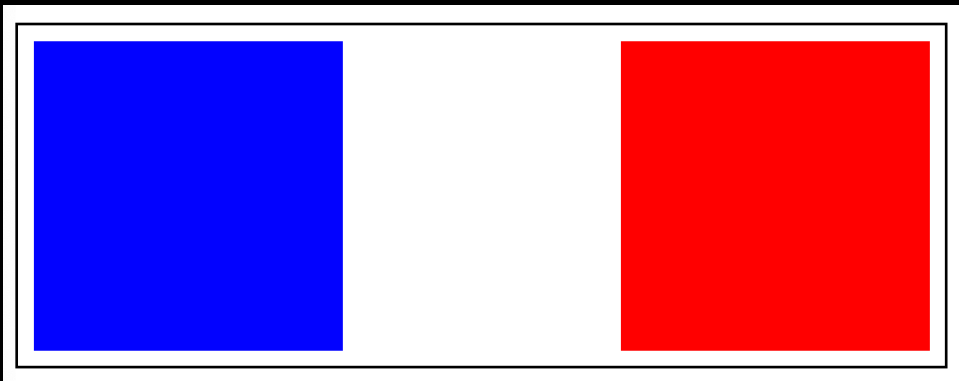


# Float Property

- **Element Alignment:** Allows elements to be aligned to the left or right within their containing element.
- **Values:** Can take values like "left", "right", or "none" to determine the floating direction.
- **Old Layout Technique:** Less commonly used with the advent of Flexbox.

```
.container {  
  height: 110px;  
  width: 300px;  
  border: 1px solid black;  
}  
  
.box {  
  width: 100px;  
  height: 100px;  
  margin: 5px;  
}  
  
.box1 {  
  background-color: red;  
  float: right;  
}  
  
.box2 {  
  background-color: blue;  
  float: left;  
}
```

```
<head>  
  <title>Float Property</title>  
  <link rel="stylesheet" href="../../css/level 6/float.css">  
</head>  
<body>  
  <div class="container">  
    <div class="box box1"></div>  
    <div class="box box2"></div>  
  </div>  
</body>
```



# Practice Set Level 5

## Display and Position

- **Create** a webpage with header, footer, and a content area.
  - **Header**
    - Create a nav bar with links.
  - **Main**
    - Create a div with width and height, Background green and border radius 50%
    - Create Three divs with container height and width 100px. Display inline block.
    - Set the correct position property for the single div element to ensure it remains at the right side of the page and does not shift when scrolling.
    - Use z-index to place the div on top of another div.
  - **Footer**
    - Add text in footer.

