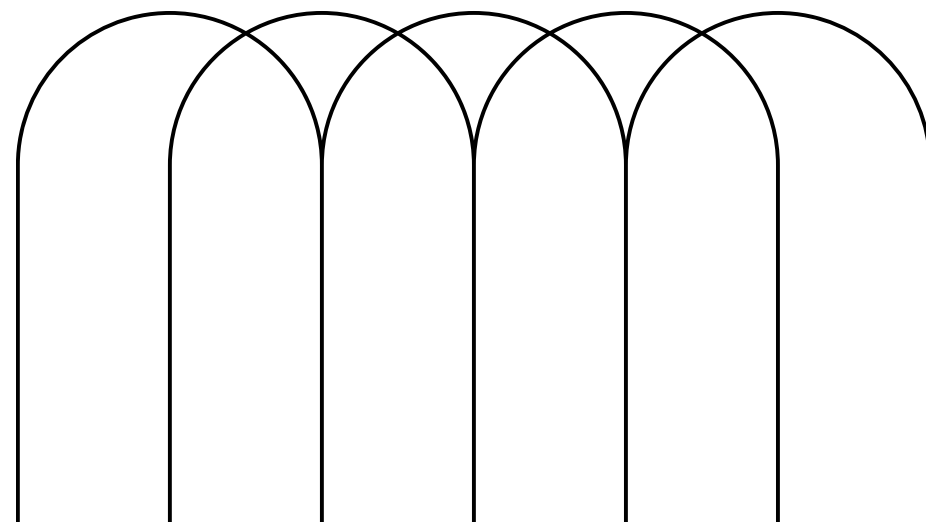


# CSS Units and Sizes



# CSS UNITS

CSS uses a variety of units to specify the size of elements, their margins, padding, fonts, and more. These units can be broadly categorized into **absolute units** and **relative units**. Understanding these units is crucial for creating responsive and scalable web designs.

## Absolute Units

Absolute units are fixed and do not change based on the viewport or parent elements. They are useful when a consistent size is required, but they may not be ideal for responsive designs.

**px (Pixels):** The most commonly used unit. It represents a single dot on the screen.


**Examples:**

```
p { font-size: 16px }
```

**cm, mm & in :** These units are useful for print styles but rarely used in web design.

**Examples:**

```
div { width: 10cm }
```



# CSS UNITS

## Absolute Units

Relative units adjust based on the context of their usage, making them more flexible and ideal for responsive designs.

**% (Percentage):** Relative to parent element

**Examples:**

```
div { width: 50% }
```

**em:** Relative to the font-size of the parent element.

**Examples:**

```
p span { font-size: 1.25em }
```

**rem (Root em):** Relative to the font-size of the root element (usually HTML).

**Examples:**

```
html { font-size: 16px }  
p {font-size: 2rem } /* 32px */
```

**vw, vh:** Relative to the viewport size.

**Examples:**

```
div { width: 50vw; } /* 50% of the viewport width */
```

# CSS UNITS

## Time Units

Time units in CSS are used primarily for animations and transitions.

**ms & s:** Specifies time in milliseconds (1s = 1000ms) and second.

**Examples:**

```
a { transition: all 400ms ease-in-out; }  
div { animation-duration: 2s }
```

## Choosing Right Units

Choosing the right unit depends on the context:

- Use **px** for precise control over elements.
- Use **em/rem** for scalable/responsive typography.
- Use **vw/vh** for full-screen elements.
- Use **%** for elements inside containers.
- Use **s/ms** for animations and transitions.

There are many more units that are used in css, you can explore them on your own on w3c documentation on [CSS Values and Units](#)

# CSS Sizes

CSS provides height and width properties to control size of elements, impacting layout, responsiveness, and overall design consistency.

## Height & Width

The height and width properties control the size of an element. They can be set using different units depending on the desired level of flexibility and responsiveness.

- Using CSS Units (px, rem, em, %, vh, vw)

### Example:

```
.box {  
  width : 200px;  
  height: 30vh;  
}
```

- Using special values (auto, min-content, max-content, fit-content)

### Example:

```
.box {  
  width : fit-content;  
  height: 30vh;  
}
```



# THANK YOU

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