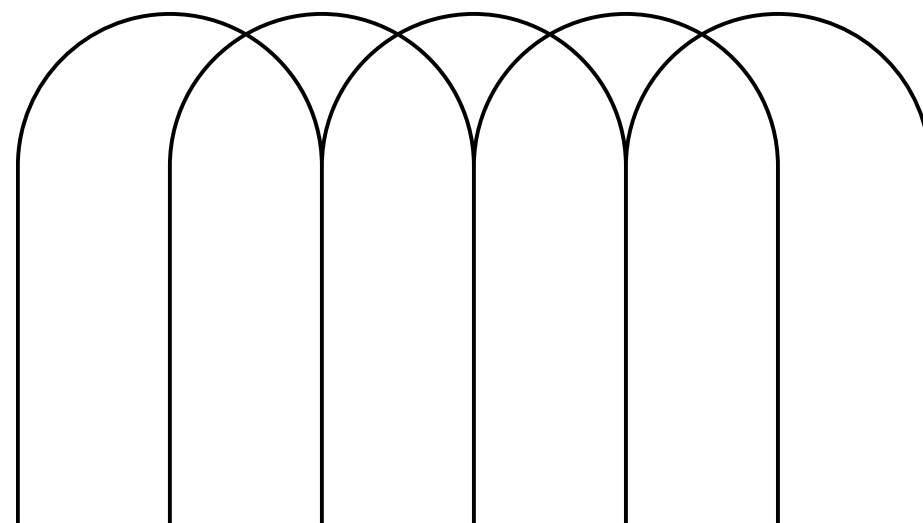


CSS Media Queries



CSS Media Queries

CSS Media Queries are an essential tool for building responsive web designs. To enable media queries our webpages must have **Viewport Meta Tag**

It allow us to apply different styles based on:

- Screen Width
- Screen Height
- Screen Resolution
- Device Orientation
- Output Medium such as (Screen & Print)

This ensures that a website adapts to different devices, improving user experience across desktops, tablets, and smartphones.

CSS Media Queries

Syntax

```
@media (media-type) and (media-feature) {
  /* CSS Rules */
}
```

media-type : Specifies the type of device (e.g., all, screen, print, speech)

media-feature : Defines conditions like screen width, height, orientation, resolution, etc.

Logical operators (and, not, only) can be used to combine multiple conditions.

Example

```
body {
  background-color: lightblue;
}
@media screen and (max-width: 600px) {
  body {
    background-color: lightcoral;
  }
}
```

CSS Media Query

Common Media Query Breakpoints

Breakpoints define the screen sizes at which layout adjustments should occur. While there are no fixed rules, the following breakpoints are widely used:

- Extra small devices (phones): max-width: 576px
- Small devices (tablets): max-width: 768px
- Medium devices (large Tablets / Notebooks): max-width: 992px
- Large devices (desktops): max-width: 1200px
- Extra Large devices (large desktops): max-width: 1400px

```
@media (max-width: 1200px) {  
  body { font-size: 18px; }  
}  
@media (max-width: 992px) {  
  body { font-size: 16px; }  
}  
@media (max-width: 768px) {  
  body { font-size: 14px; }  
}
```

CSS Media Query

Using Orientation

```
@media (orientation: landscape) {  
  body { background-color: yellow; }  
}
```

Using Resolution

```
@media (min-resolution: 300dpi) {  
  img { width: 100%; }  
}
```

Combining Multiple Conditions

```
@media screen and (min-width: 768px) and (max-width: 1400px) {  
  p { font-size: 14px; }  
}
```

CSS Media Query

Best Practices

- **Mobile-First Approach:** Start designing for smaller screens and scale up using min-width queries.
- **Using Relative Units:** Instead of fixed pixel values, we use em, rem, %, or vw/vh for better scalability.
- **Avoid Too Many Breakpoints:** We use only necessary breakpoints to maintain efficiency.
- **Test on Multiple Devices:** Ensure responsiveness across different screen sizes and orientations.
- **Combine with Flexbox or Grid:** Use CSS Flexbox or Grid for better layout management alongside media queries.



THANK YOU

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