

CSS - Variables

CSS Variables

CSS Variables, also known as Custom Properties, are user-defined values in CSS that can be reused throughout a stylesheet. They allow us to store values like colors, fonts, spacing, and more in a single place, making your CSS more maintainable, consistent, and easier to update.

Syntax: `--variable-name: value;`

To use the variable we use **`var(--variable-name, fallback value)`**

Example:

```
:root{
  --primary-color: #0000dd;
  --base-font-size: 18px;
  --body-color: #323437;
}
body{
  color: var(--body-color, #333); /* #323437 */
}
```

CSS Variables

There are two types of variables in css:

Global Variable: Defined inside **:root** pseudo selector and available throughout the webpage

Example:

```
:root{
  --primary-color: #0000dd;
}
button{ background-color: var(--primary-color); /* #0000dd; */ }
```

Local Variable: Defined inside an element and available only inside that element

Example:

```
button{
  --accent-color: #0000dd;
  background-color: var(--accent-color) /* #0000dd; */
}
a{ background-color: var(--accent-color, orange); /* --accent-color not available here so orange will be the value here*/}
```

CSS Variables

Why use CSS Variables

- **Reusability:** Define once, use anywhere.
- **Maintainability:** Change in one place reflects everywhere.
- **Dynamic Themes:** Easily switch themes or colors.
- **Cleaner Code:** Improves readability and structure.

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; }  
}
```




THANK YOU

PHONE NUMBER

(+91) 778 899 2897

WEBSITE

www.indixpert.com