



CSS Custom Properties





Topics

- Understanding CSS custom properties
- Example of CSS Custom properties



Understanding CSS Custom properties

- CSS custom properties which are sometimes referred to as CSS variables or cascading variables are entities defined by CSS authors that contain specific values to be reused throughout a document.
- They are set using custom property notation example

```
/*declaring CSS variable */  
--main-color:black  
  
/*var() function is used to accessed the color. */  
color: var(--main-color)
```



Example of CSS Custom properties

CSS custom properties example can be of Variable Color, Variable Dimensions and much more

Variable Color Example

HTML

```
<div class="container">  
  <h1>Custom properties Demo</h1>  
</div>
```

CSS

```
:root {  
  --red: #b00;  
  --blue: #4679bd;  
  --grey: #ddd;  
}  
.container {  
  color: var(--red);  
  background: var(--grey);  
  border: 1px solid var(--red);  
}
```

Output

Custom properties Demo



Variable Dimensions Example

HTML

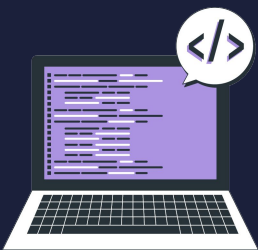
```
<div class="container">  
  <h1>Custom properties Demo</h1>  
</div>
```

CSS

```
:root {  
  --w200: 300px;  
  --m10: 40px;  
  --red: #b00;  
}  
.container {  
  border: 1px solid var(--red);  
  width: var(--w200);  
  margin: var(--m10);  
}
```

Output

Custom properties
Demo



Example of Variable Cascading

HTML

```
<body>
  <a class="button" href="#"> Button Green</a>
  <a class="button btn_red" href="#"> Button Red</a>
  <a class="button" href="#"> Button Hover On</a>
</body>
```

CSS

```
.button {
  --color: green;
  padding: 0.5rem;
  border: 1px solid var(--color);
  color: var(--color);
}
.button:hover {
  --color: blue;
}
.btn_red {
  --color: red;
}
```

Output

Button Green

Button Red

Button Hovered On



calc() func

You can utilize the calc() CSS function to execute calculations while defining values for CSS properties.

```
property: calc(expression)
```

The expression can be any simple expression combining the following operators, using standard operator precedence rules:

- + Addition.
- - Subtraction.
- * Multiplication
- / Division

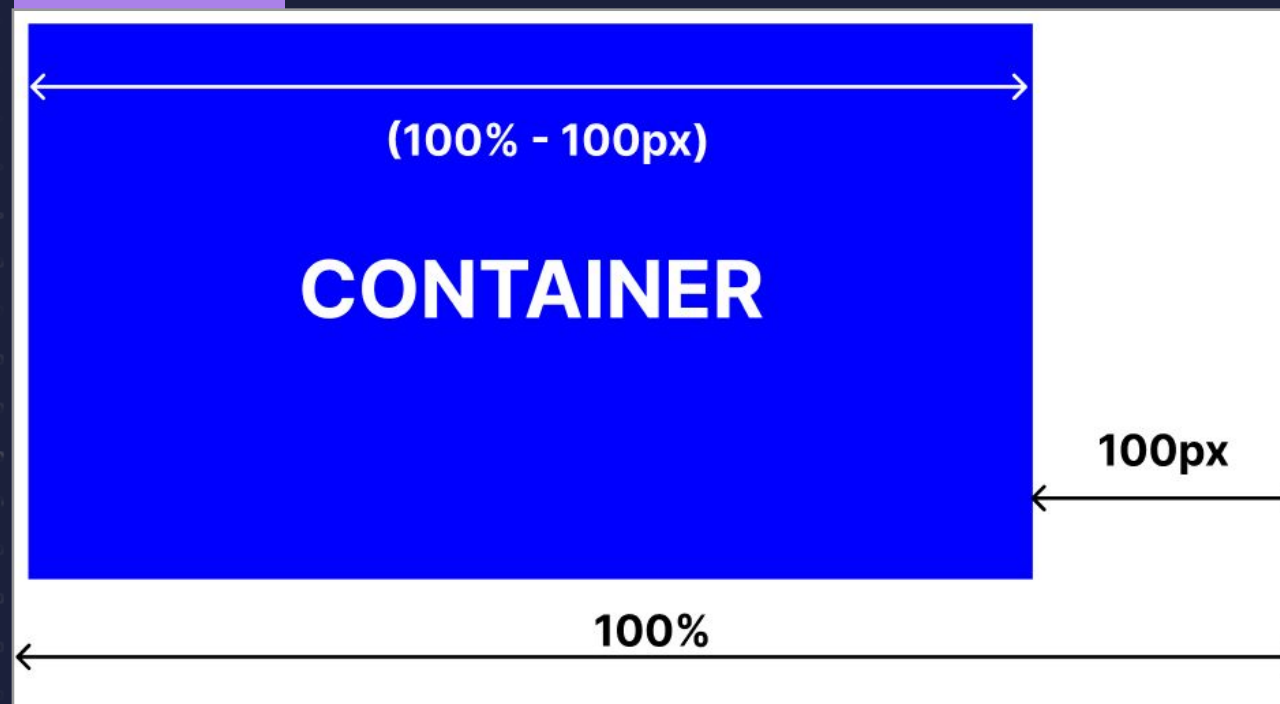


calc() Example

Code

```
<style>
  #container {
    width: calc(100% - 100px);
    height: 50vh;
    background-color: blue;
  }
</style>
<body>
  <div id="container"></div>
</body>
```

Output





▶ THANK YOU ◀