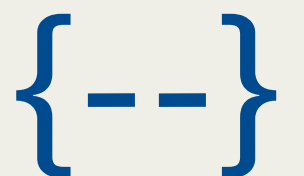


# CSS Custom Properties

---

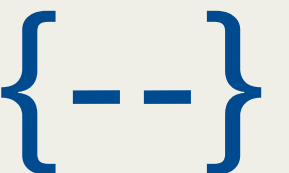
**WHAT ARE THEY AND HOW CAN THEY BE USED?**

**WHAT ARE THE KEY USE CASES?**



# What are CSS Custom Properties?

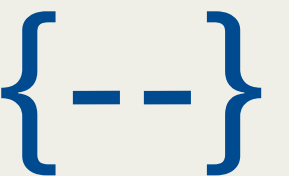
**CSS Custom Properties (also known as CSS variables) allow you to define reusable values in CSS.**



# A FEW THINGS TO KEEP IN MIND

---



- The CSS Custom Properties are placed under “**:root**” selector.
- They are defined with a **--** prefix (EX: **-- primary colour**).
- Accessed throughout your CSS using the **var()** function.
- It's part of the CSS spec, so you don't need any tools.
- They cascade and are inherited like regular properties.



# WHAT WILL IT LOOK LIKE?

---

## STEP 1: CREATE THE VARIABLE

```
:root {  
  --main-color:  green;  
  --card-color:  #e67e22;  
  --roundness: 40px;  
  --space: 40px;  
}
```


- Create your selector:
  - **:root**
- Define your custom properties using:
  - **--main-color**

{--}

# WHAT WILL IT LOOK LIKE?

---

## STEP 2: USE IT ANYWHERE

```
:root {  
  --main-color:  green;  
  --card-color:  #e67e22;  
  --roundness: 40px;  
  --space: 40px;  
}
```

```
body {  
  font-family: system-ui;  
  padding: var(--space);  
}  
  
h1 {  
  color: var(--main-color);  
}  
  
article {  
  background: var(--card-color);  
  padding: var(--space);  
  margin-top: var(--space);  
  border-radius: var(--roundness);  
  border-left: 4px solid var(--main-color);  
}
```

{--}

# QUICK DEMO

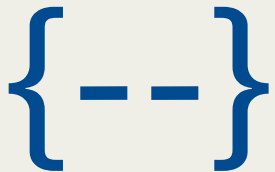
```
HTML
1 <html>
2 <h1>My Favourite Animals</h1>
3
4 <article>
5   <h2>🐱 Cats</h2>
6   <p>Cats are soft and fluffy and they purr when they're
   happy.</p>
7 </article>
8
9 <article>
10  <h2>🐶 Dogs</h2>
11  <p>Dogs love to play fetch and go for walks in the park.
   </p>
12 </article>
13

CSS 37 unsaved changes
1 /* Save your values once up here */
2 :root {
3   --main-color: #e67e22;
4   --card-color: #e67e22;
5   --roundness: 80px;
6   --space: 40px;
7 }
8
9 /* Now use them everywhere with var() */
10 body {
11   font-family: system-ui;
12   padding: var(--space);
13 }
14
15 h1 {
```

## My Favourite Animals

 **Cats**

Cats are soft and fluffy and they purr when they're happy.



# APPLICATION TYPE: THEMES

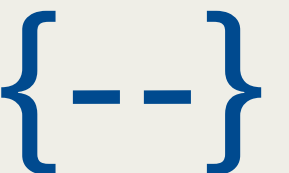
---

```
:root {
  --bg: white;
  --text: black;
}

[data-theme="dark"] {
  --bg: #0f172a;
  --text: #f1f5f9;
}

body {
  background: var(--bg);
  color: var(--text);
  font-family: system-ui;
  padding: 2rem;
  transition: all 0.3s;
}
```

- Different themes for one website.
- You always want your default theme at the top.
- This application will require HTML & JavaScript.
- This makes it easier to work with the different colors.



# APPLICATION TYPE: MEDIA QUERYS

---

```
:root {
  --size: 16px;
  --color: ■tomato;
}

@media (min-width: 600px) {
  :root {
    --size: 40px;
    --color: ■dodgerblue;
  }
}

h1 {
  font-size: var(--size);
  color: var(--color);
}
```

- Another instance where CSS Custom Properties is with Media Querys.
- Change a few variables at different screen sizes and everything updates.
- No need to rewrite styles for every element at each breakpoint.
- The default :root is your mobile style, the media query overrides it for bigger screens.

{--}

# APPLICATION TYPE: MEDIA QUERYS

---

## WITHOUT:

```
h1 {
  font-size: 20px;
  color: #e74c3c;
  padding-left: 0px;
}

p {
  font-size: 20px;
  color: #e74c3c;
  padding-left: 0px;
}

@media (min-width: 600px) {
  h1 {
    font-size: 40px;
    color: #2980b9;
    padding-left: 40px;
  }

  p {
    font-size: 40px;
    color: #2980b9;
    padding-left: 40px;
  }
}
```

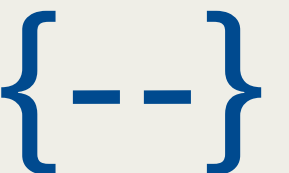
## WITH:

```
:root {
  --color: #e74c3c;
  --size: 20px;
  --spacing: 8px;
  --padding-left: 0px;
}

@media (min-width: 600px) {
  :root {
    --color: #2980b9;
    --size: 40px;
    --spacing: 14px;
    --padding-left: 40px;
  }
}

h1 {
  font-size: var(--size);
  color: var(--color);
  padding-left: var(--padding-left);
}

p {
  font-size: var(--size);
  color: var(--color);
  padding-left: var(--padding-left);
}
```

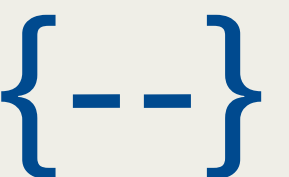


# A QUICK RECAP

---

- *CSS custom properties let you save values once & reuse them everywhere.*
- *They are mostly applied for themeing & responsive web design.*
- *The main benefit is less repetition, less code and if you need to change something you only change it once!*

**All browsers support CSS Custom Properties, so you can start using it today!**



# Thank you!

---

**CSS CUSTOM PROPERTIES**

