





Day 23

"Web Development + Security"

CSS Variables:

What are CSS Variables?

CSS Variables are reusable values defined in CSS that can be used throughout a stylesheet. They make your code more consistent, easier to maintain, and simpler to update.

```
Basic Syntax:
:root {
 --main-color: blue;
 --font-size: 18px;
}
```

Now, to understand, let's do some coding!

Example: basic code where we have just removed the marker of the

```
<html lang="en">
                                                                          Home
                                                                          Contact Us
         padding: 0;
                                                                          About
          background-color: ■cadetblue;
         padding: 12px;
         </body>
```

Now, we want to make the items of in the same line, we will use the display:flex in the ul selector:

Now, we are introducing the variables: --primary-color & --secondary-color are the vraible screated by me. Also, we can see that in .nav var(--secondary-color) is written in order to provide the color of that variable to the nav class.

In case we change it to var(--primary-color) it will change its color as shown below:

Now, we have the concept of local variable too, let's see: clearly, we can see that we have overwrite the color we had in the :root in the ul li:first-child.

Suppose we don't have that variable then? We can specify It as shown below:

Also, it is not important that we are using the color properties for the colours only, we can use it for other properties too like padding:

CSS Media Queries:

What Are CSS Media Queries?

Media Queries are used in CSS to make your website responsive — meaning it looks good on all devices (mobile, tablet, laptop, desktop). They apply different styles based on screen size or device type.

Basic syntax:

```
@media (condition) {
  /* CSS rules go here */
}
```

Conditions:

Condition	Meaning
max-width	Applies when the screen width is up to that value
min-width	Applies when the screen width is at least that value
orientation: portrait	Applies when the screen is taller than wide
orientation: landscape	Applies when the screen is wider than tall

Example: a basic example of red background color

Code:

```
🔀 Welcome 🗆 🗙
              index.html 1
                              variables.html
 🥫 index_media.html > 쥥 html
      <!DOCTYPE html>
      <html lang="en">
          <meta charset="UTF-8">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>Document</title>
          body{
              background-color: ☐red;
          Aditya is a boy
      </body>
  16
      </html>
```

Output:



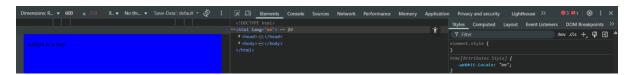
Now, we want that if the device max-width is a certain value then the background colour of the page changes to blue, then for that we will use the media query:

Code:

Output: in the inspect section



The moment we decrease the size to 600 from 601, the moment it changes its colour to blue:



This means that the webpage will have background colour blue for the devices whose max-width of deice be 600px.