Understanding Some SCSS/CSS Properties and Values

SCSS/CSS

SCSS (Sassy CSS) is a way to style your website by controlling colors, fonts, spacing, and layout. This brief tutorial describes some key properties and their descriptions. SCSS files have extension `.scss` and can be saved in `styles/` of your project repo to be referenced by your `_quarto.yml` file. When you open `.scss` files in RStudio, you will see the hexidecimal color code and can adjust accordingly.

Additional theming elements can be found at quarto.org for those interested in greater control.

Basic Structure

CSS rules follow this pattern:

```
selector {
  property: value;
}
```

The selector targets HTML elements, and the properties define how they look.

Selectors Used in Example

- `body`: targets the whole page
- `.navbar`: targets elements with `class="navbar"`
- `.navbar a`: targets `<a>` tags inside navbar elements
- `a:hover`: special state when hovering over links
- `footer`, `pre`: targets specific HTML elements

Selector Explanations

`body`: Targets the entire webpage content

```
body {
  background-color: #FFFFFF;
  color:  #121212;
  font-family: Arial, sans-serif;
  line-height: 1.6;
  margin: 0;
  padding: 0;
}
```

Properties:

- `background-color`: background for the whole page
- `color`: text color
- `font-family`: font type
- `line-height`: space between lines of text
- `margin: 0`: spacing around page edges
- `padding: 0`: internal spacing

`.navbar a`: Styles all links (`<a>` tags) inside elements with class `"navbar"`

```css
.navbar a {
  color: #6610f2;
  text-decoration: none;
  padding: 5px 10px;
}
```

Properties:

- `color`: link color
- `text-decoration`: styles underlines from links
- `padding`: left/right spacing around links

`.navbar a:hover`: Styles links when you hover your mouse over them

```css
.navbar a:hover {
  color: #FFD700;
  text-decoration: underline;
}
```

Properties:

- `color`: color change on hover
- `text-decoration`: underline behavior when hovering

`footer`: Styles the footer element at the bottom of pages

```css
footer {
  background-color: #50fa7b;
  color: #FFFFFF;
  padding: 10px 20px;
  text-align: center;
  position: fixed;
  width: 100%;
  bottom: 0;
  border-top: 2px solid #121212;
}
```

Properties:

- `background-color`: background color
- `color`: font color
- `padding`: spacing inside the footer
- `text-align`: text position
- `position`: footer visibility when scrolling
- `width`: manages width of screen
- `bottom`: positions at bottom of viewport
- `border-top`: border along top edge

`pre:` Styles pre-formatted text blocks

```
pre {
  background-color: #1E1E1E;
  border-color: #121212;
  border-width: 1px;
  border-style: solid;
  padding: 10px;
  overflow-x: auto;
}
```

Properties:

- `background-color`: background color
- `border-*`: border around the block
- `padding`: inner spacing
- `overflow-x`: manages horizontal scrollbar for long lines