

# Module 07: Advanced CSS

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**Semester:** Fall 2025  
**Day/Time:** Monday 6:30pm-8:50pm  
**Location:** Massry School for Business  
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**Office Location:** Online  
**Office Hour Zoom:** As requested

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## Setting up

1. Open your text editor. The index.html file has been provided for you.
2. Publish the repository so that it is visible to the world.
3. In the same folder, create a new file name “styles.css”
4. Make sure both files are saved in the same folder

## Step 1 – Advanced CSS

1. Open your “styles.css”
2. Add the following text:

```
/* Reset and setup */
*, *::before, *::after
{
  box-sizing: border-box;
  margin: 0;
  padding: 0;
}
```

  - *Removes default margins and padding from all elements. This ensures that your layout appears the same across all browsers.*
  - *Try changing the numbers to see the different effects*
3. Add the following text:

```
body
{
  font-family: system-ui, sans-serif;
  background: #0b0e14;
  color: #e6edf3;
}
```

  - *Sets a dark background (#0b0e14) and light text (#e6edf3). The system-ui font matches the operating system’s default typeface, keeping text readable.*
  - *Try playing with colors to see the different effects*
4. Next, we will define some variables:

```
/* Color and design variables */
:root
{
  --primary: #4f9cff;    /* Accent blue color */
  --text: #e6edf3;      /* Light text color */
}
```

  - *Variables like --primary and --text make color changes easy later. You can reuse them throughout your CSS.*

5. We can make some visual changes to the header

```
/* Header layout */
.site-header
{
  display: flex;
  justify-content: space-between;
  align-items: center;
  background: #111624;
  padding: 0.75rem 1rem;
  position: sticky;
  top: 0;
}
```

- *display: flex puts the logo and navigation side by side.*
- *justify-content: space-between pushes them to opposite sides.*
- *position: sticky; top: 0; keeps the header visible while scrolling.*

6. We can style the Logo now.

```
/* Logo styling */
.logo
{
  color: var(--text);
  text-decoration: none;
  font-weight: bold;
}
```

- *Makes the logo bold and maintains consistency with the color theme.*
- 

7. We'll make some changes to the navigation menu.

```
/* Navigation links */
.site-nav ul
{
  list-style: none;
  display: flex;
  gap: 1rem;
}

.site-nav a
{
  text-decoration: none;
  color: var(--text);
  padding: 0.5rem 0.75rem;
  border-radius: 8px;
  transition: background 0.3s;
}
```

- *The unordered list (ul) uses display: flex to arrange links horizontally.*

*The gap property adds space between each link.*

8. Finally, we will make some changes to the hover command

```
/* Hover and active link styles */  
.site-nav a:hover,  
.site-nav a.active  
{  
  background: var(--primary);  
  color: #000;  
}
```

- *When a user hovers or clicks a link, it changes background color and text color.*
- *This gives clear feedback that the link is interactive.*

## Step 2 – Testing your Page

1. Save your styles.css.
2. Open index.html in a web browser.
3. You should see a dark header with white text and a row of navigation links.
4. Hover over the links — they should turn blue with dark text.

## Step 3 – Submit your Work

1. Upload your work
2. Publish your GitHub page
3. Place the link in Brightspace