

Web Development

# **Introduction to Tailwind CSS**

Presented by Muhammad Munim

## What is Tailwind CSS?

Tailwind is a utility-first CSS framework. Instead of writing custom CSS, you use pre-defined classes to style directly in HTML.

**Utility-first means:** You compose your designs by applying small, reusable classes like text-center, mt-4, bg-blue-500.

```
<button class="bg-blue-500 text-white px-4 py-2 rounded">Click Me</button>
```

## Why Use Tailwind CSS?

- Saves time (no writing custom CSS)
- Makes responsive design easier
- Has built-in dark mode, themes, and plugins
- Promotes consistency and speed in design

## How to Use Tailwind CSS

CDN (quick demo/testing)

Add this line in your HTML:

```
<script src="https://cdn.jsdelivr.net/npm/@tailwindcss/browser@4"></script>
```

# Web Development

```
<!DOCTYPE html>
<html lang="en" class="dark">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Tailwind Dark Mode (HTML Only)</title>

  <script src="https://cdn.tailwindcss.com"></script>
  <script>
    tailwind.config = {
      darkMode: 'class',
    }
  </script>
</head>

<body
  class="bg-white text-black dark:bg-gray-900 dark:text-white min-h-screen flex flex-col items-center justify-center transition-colors duration-300">

  <h1 class="text-4xl font-bold mb-4">🌙 Dark Mode with Tailwind</h1>
  <p class="mb-6 text-center max-w-md">
    Click the button below to toggle between light and dark mode using Tailwind CSS in plain HTML.
  </p>
  <button onclick="document.documentElement.classList.toggle('dark')"
    class="px-6 py-2 rounded bg-gray-800 text-white dark:bg-gray-200 dark:text-black transition-all duration-300">
    Toggle Dark Mode
  </button>

</body>
</html>
```

## Tailwind Core Concepts

### Utility Classes

bg-red-500, text-center, m-4, p-2

Use directly in HTML

### Responsive Classes

Mobile-first by default

sm:, md:, lg:, xl:, 2xl:

```
<div class="text-sm md:text-lg lg:text-xl">Responsive Text</div>
```

## Color, Spacing, Typography

- Backgrounds: bg-yellow-500, bg-gray-100
- Text: text-gray-700, text-lg, text-sm, text-xl
- Spacing: mt-4, p-2, mx-auto

## Layout Utilities

### ◇ Flexbox

```
<div class="flex justify-between items-center">  
  <div>Logo</div>  
  <div>Menu</div>  
</div>
```

## Grid System

```
<div class="grid grid-cols-3 gap-4">  
  <div>Box 1</div>  
  <div>Box 2</div>  
  <div>Box 3</div>  
</div>
```

## Width/Height Utilities

w-1/2, w-full, h-10, h-screen

Web Development

## Advanced Utilities

◇ Pseudo-classes

Hover, Focus:

```
<button class="bg-blue-500 hover:bg-blue-700">Hover Me</button>
```

## Conditional Visibility

hidden, block, lg:hidden



## Forms & Typography

### ◇ Inputs

```
<input type="text" class="border border-gray-300 p-2 rounded w-full">
```

### Apply Directive (For Custom Classes)

```
/* styles.css */  
.btn {  
  @apply bg-blue-500 text-white py-2 px-4  
  rounded hover:bg-blue-700;  
}
```

## Transitions & Animations

Add smooth hover effects

```
<div class="transition duration-300 ease-in-out transform hover:scale-105">  
  Hover Me  
</div>
```

**Built-in Animations:** animate-bounce, animate-spin

## Mini Project: Product Card Grid Page

### Objective:

- Students build a mini product listing layout using Tailwind.

### Features:

- Responsive grid using grid-cols-1, md:grid-cols-2, etc.
- Card contains image, title, description, price, button
- Button has hover and transition
- Add Tailwind Typography plugin for product text

Optional: Add dark mode

## Videos:

- Traversy Media Tailwind Crash Course
- Codevolution Tailwind Full Playlist

## Games:

- Tailwind Play (Interactive Playground)
- Frontend Mentor Challenges

## Blogs:

- Tailwind Official Blog
- CSS-Tricks Tailwind Articles

## Websites:

- TailwindCSS Official Docs
- Tailwind UI Components
- DaisyUI Component Library

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## Submission Notes

### Capture Evidence:

- Take screenshots or record a short video for each task.
- Ensure your evidence clearly shows the completed task.

### Upload Tasks:

- Upload each task as a separate folder or file in your GitHub repository.

### LinkedIn Post:

- Create a short post summarizing what you learned and how you completed the tasks.
- Highlight your key takeaways.
- Mention the following account in your post:
- **Muhammad Munim**

Web Development

# Thank You

 [linkedin.com/in/m-munim1](https://www.linkedin.com/in/m-munim1)

 [github.com/M-Munim](https://github.com/M-Munim)

 [+92 330 2021926](https://wa.me/923302021926)