**🌑 Dark Mode in Tailwind CSS v4**

**📘 What is Dark Mode?**

**Dark mode is a design style that uses a darker color palette for UI elements. Tailwind makes it easy to implement dark themes using utility classes prefixed with dark:.**

**🔹 1. Write Basic Code (Light Mode)**

**Here’s a simple HTML section in light mode:**

**<div class="bg-white text-black p-6 rounded shadow-md">**

**<h1 class="text-xl font-bold">Welcome to Light Mode</h1>**

**<p>This is a basic container in light mode.</p>**

**</div>**

**🔹 2. Update This Code for Dark Mode**

**Tailwind uses class-based dark mode by default in v4. To use it, you simply add the dark: prefix to your classes and set a class="dark" on the parent.**

**✅ Example with Light and Dark Mode:**

**<!-- Manually toggle dark mode by adding 'dark' class on <html> or <body> -->**

**<body class="dark:bg-gray-900 dark:text-white bg-white text-black p-10">**

**<div class="bg-white dark:bg-gray-800 text-black dark:text-white p-6 rounded shadow-md">**

**<h1 class="text-xl font-bold">Dark Mode Enabled</h1>**

**<p>This block supports light and dark themes.</p>**

**</div>**

**</body>**

**🔹 3. Test Dark Mode with Operating System Mode**

**Tailwind v4 also supports media-query-based dark mode using your operating system preference.**

**🛠 To enable this, set the darkMode to 'media' (only needed if using a config file, which is optional in v4).**

**✅ With no config file — Tailwind v4 handles it automatically:**

**Use dark: classes and test by switching your OS to dark mode.**

**<!-- Just add dark classes, Tailwind v4 auto-detects OS mode -->**

**<div class="bg-white dark:bg-black text-black dark:text-white p-6 rounded">**

**Auto switches with OS mode**

**</div>**

**Note: In Tailwind v4 CLI setup without config, dark mode defaults to class strategy, so if you want OS-based switching, you must:**

* **either write a minimal tailwind.config.js with darkMode: 'media'**
* **or toggle manually using JavaScript.**

**🔹 4. Using Dark Mode Toggle (Optional Bonus)**

**You can toggle dark mode using JavaScript by switching the dark class on the <html> or <body> tag.**

**✅ Example Toggle Button:**

**<button onclick="document.body.classList.toggle('dark')"**

**class="bg-blue-500 text-white px-4 py-2 rounded">**

**Toggle Dark Mode**

**</button>**

**💡 Interview Questions & Answers**

| **Question** | **Answer** |
| --- | --- |
| **How to enable dark mode in Tailwind v4?** | Use dark: prefix and apply dark class on <html> or <body>. |
| **What is the default strategy in Tailwind v4 for dark mode?** | class strategy is default in v4 CLI setup (uses dark: with manual toggle). |
| **How to test dark mode with OS theme?** | Just add dark: classes and switch your OS to dark theme. No config needed. |
| **Can dark mode be toggled manually?** | Yes, by adding/removing dark class via JavaScript. |
| **Is tailwind.config.js required for dark mode in v4?** | Not required unless customizing behavior (media vs class strategy). |