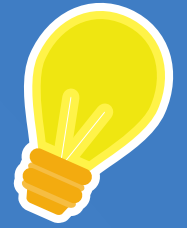


# BLAZOR + TAILWIND CSS HANDBOOK



# Introduction



Blazor and Tailwind CSS are a powerful combination for building modern, responsive web applications. With the release of Tailwind CSS v4, the setup process has changed - **and for the better!**

This handbook is your quick-start guide to integrating Tailwind CSS v4 into your Blazor web applications. Whether you're starting fresh or upgrading an existing project, this guide will walk you through each step to get Tailwind up and running efficiently.

By the end, you'll have a fully configured Blazor app with Tailwind CSS v4, ready to build stunning, scalable UIs. Let's get started! 🚀



# Step 1: Install Node.js & npm



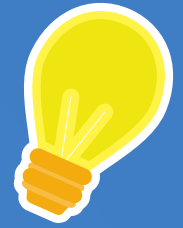
Tailwind CSS requires **npm** (Node Package Manager) to install and manage dependencies. If you haven't installed **Node.js** yet:

1. Download and install Node.js from [nodejs.org](https://nodejs.org) (npm comes bundled with it).
2. Verify the installation:

```
Windows PowerShell
PS C:\Users\patri> node -v
v23.6.1
PS C:\Users\patri> npm -v
11.0.0
PS C:\Users\patri>
```

This should output version numbers for Node and npm. If it doesn't, restart your terminal or reinstall Node.js.

# Step 2: Install Tailwind CSS



Now, let's add Tailwind CSS to your Blazor app.

1. Open a terminal in your Blazor project folder (**not the solution root!**).
2. Run the following command:

```
npm install tailwindcss @tailwindcss/cli
```

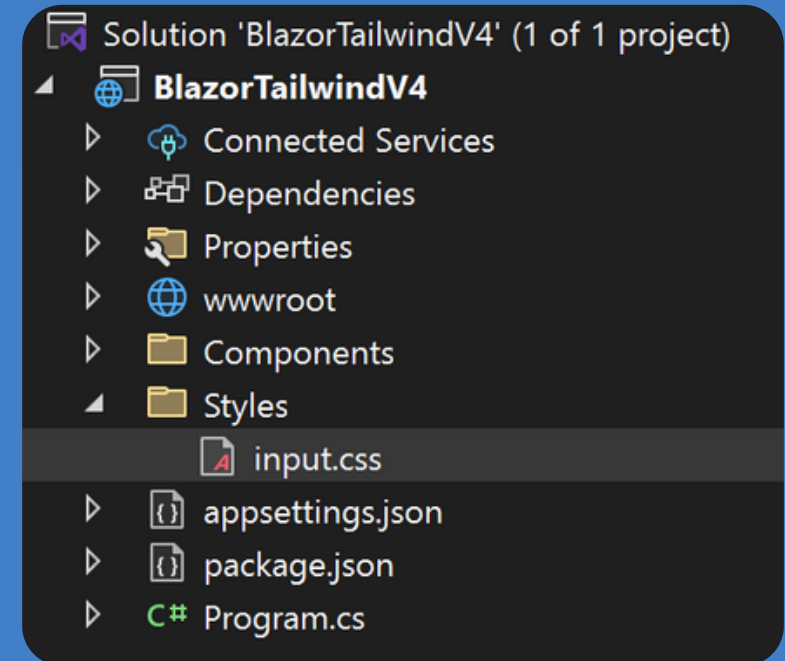
This installs Tailwind CSS and its CLI as a development dependency.

# Step 3: Create an Input CSS File

Tailwind CSS needs an input file where we define our styles.

1. Inside your Blazor project, create a folder called **Styles**.
2. Inside styles, create a file named **input.css**.
3. Add the following line to your input.css:

```
@import "tailwindcss";
```



# Step 4: Generate the Tailwind CSS Output File 1/2

Next, we need to process our input file to generate the final CSS output.

- Run the following command in the terminal:

```
npx @tailwindcss/cli -i ./Styles/input.css -o ./wwwroot/tailwind.css --watch
```

- **-i** specifies the input file (styles/input.css).
- **-o** sets the output file (wwwroot/tailwind.css).
- **--watch** makes Tailwind watch for changes and rebuild the CSS automatically.

If everything is set up correctly, Tailwind will generate the **tailwind.css** file inside the **wwwroot** folder.

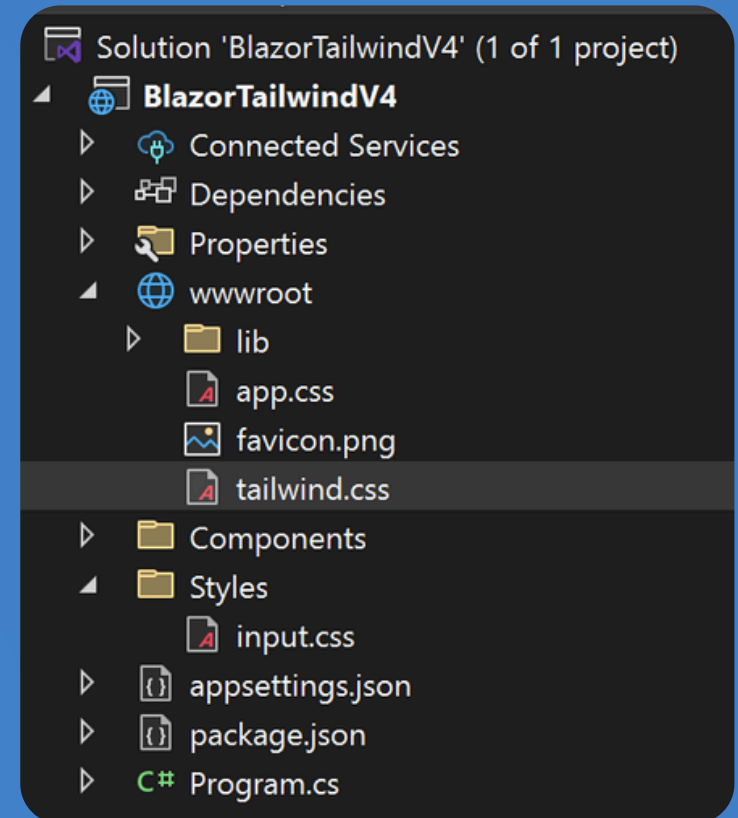


# Step 4: Generate the Tailwind CSS Output File 2/2

If everything is set up correctly, Tailwind will generate the **tailwind.css** file inside the **wwwroot** folder.

```
PS C:\Development\Blaz
≈ tailwindcss v4.0.14

Done in 255ms
Done in 1ms
Done in 178ms
Done in 6ms
Done in 1ms
```



# Step 5: Link Tailwind in Blazor

Now, we need to include Tailwind in Blazor so that our styles apply to the app.

1. Open the **App.razor**.
2. Find the existing **<link>** elements.
3. Add this line:

```
<link rel="stylesheet" href="@Assets["app.css"]" />  
<link rel="stylesheet" href="@Assets["BlazorTailwindV4.styles.css"]" />  
<link rel="stylesheet" href="@Assets["tailwind.css"]" />  
<ImportMap />
```

Now, Tailwind CSS is fully integrated! 🎉

# Step 6: Test Your Setup

Let's test if Tailwind is working correctly.

1. Open the **Home.razor** (or any page).
2. Add this inside the **<div>**:

```
<h1 class="text-3xl font-bold underline">  
  Hello, Tailwind!  
</h1>
```

Run your Blazor app, and you should see a bold, underlined, large "Hello, Tailwind!"



Hello, Tailwind!

# Troubleshooting Tips

- *Styles not applying?* Make sure the output CSS file is linked in the **App.razor** and that you restarted the **--watch** process.
- *Classes missing?* Tailwind uses **tree-shaking**, so only **used** classes are included in the final CSS file.
- *Errors in the terminal?* Try running **npm install** again or deleting **node\_modules** and reinstalling dependencies.

# Done!

Congratulations! 🎉 You've successfully installed Tailwind CSS v4 in your Blazor app. Now you can build modern, responsive, and maintainable UIs with ease.

🎥 Want to see this in action? Check out the full YouTube tutorial here: <https://youtu.be/6RHgQ8lqKv0> 🚀

# Keep Learning and Coding!

If you liked this handbook, share it with others who might find it helpful.

For more tips and tutorials, check out my [YouTube channel](#) or visit the [.NET Web Academy](#).

Happy coding! 😊

