# Enhance Blazor Component Usability

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# Blazor Enhancements in .NET 5.0

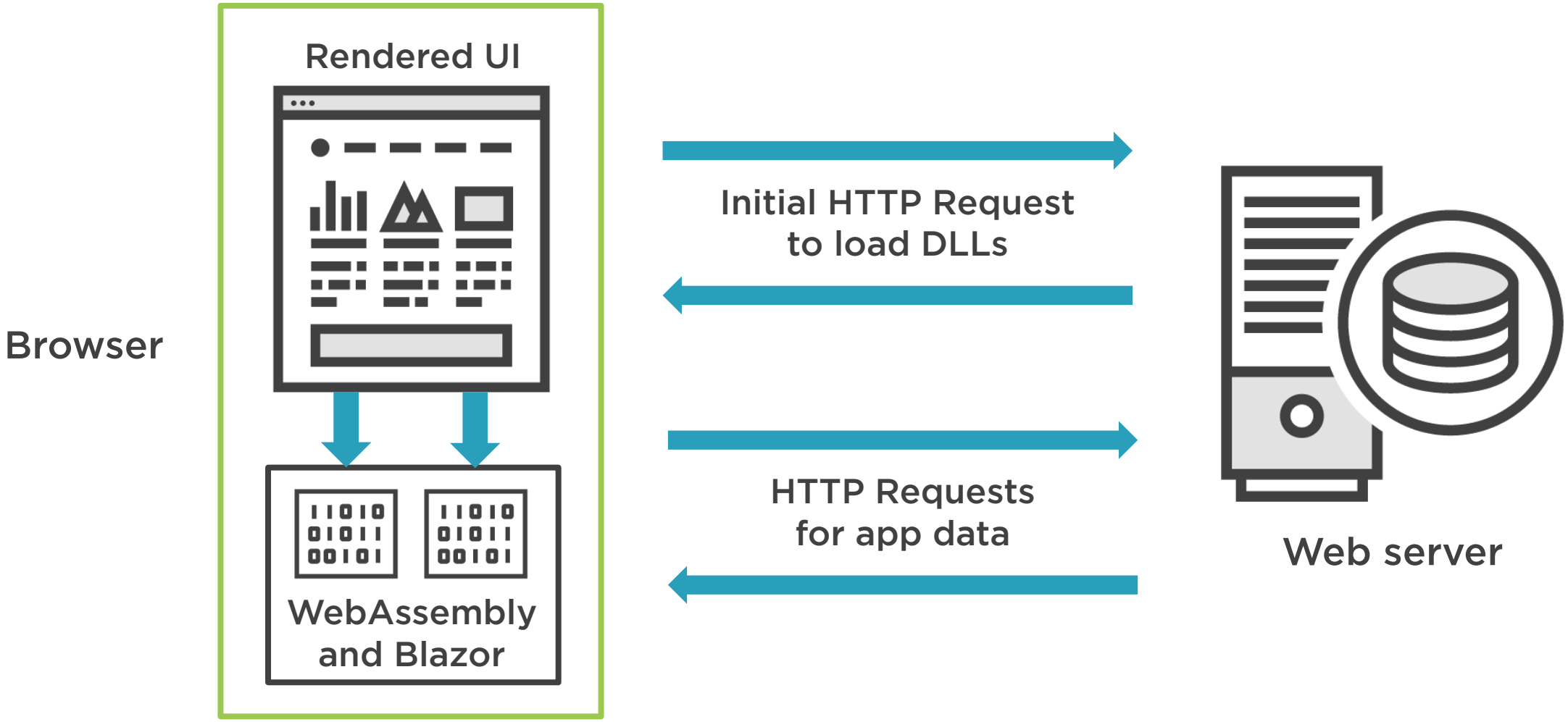
## Component Features

**Improve the development experience and feature gaps.**

## Performance

**Allows apps to run faster and with better stability.**

# Understanding Blazor WebAssembly



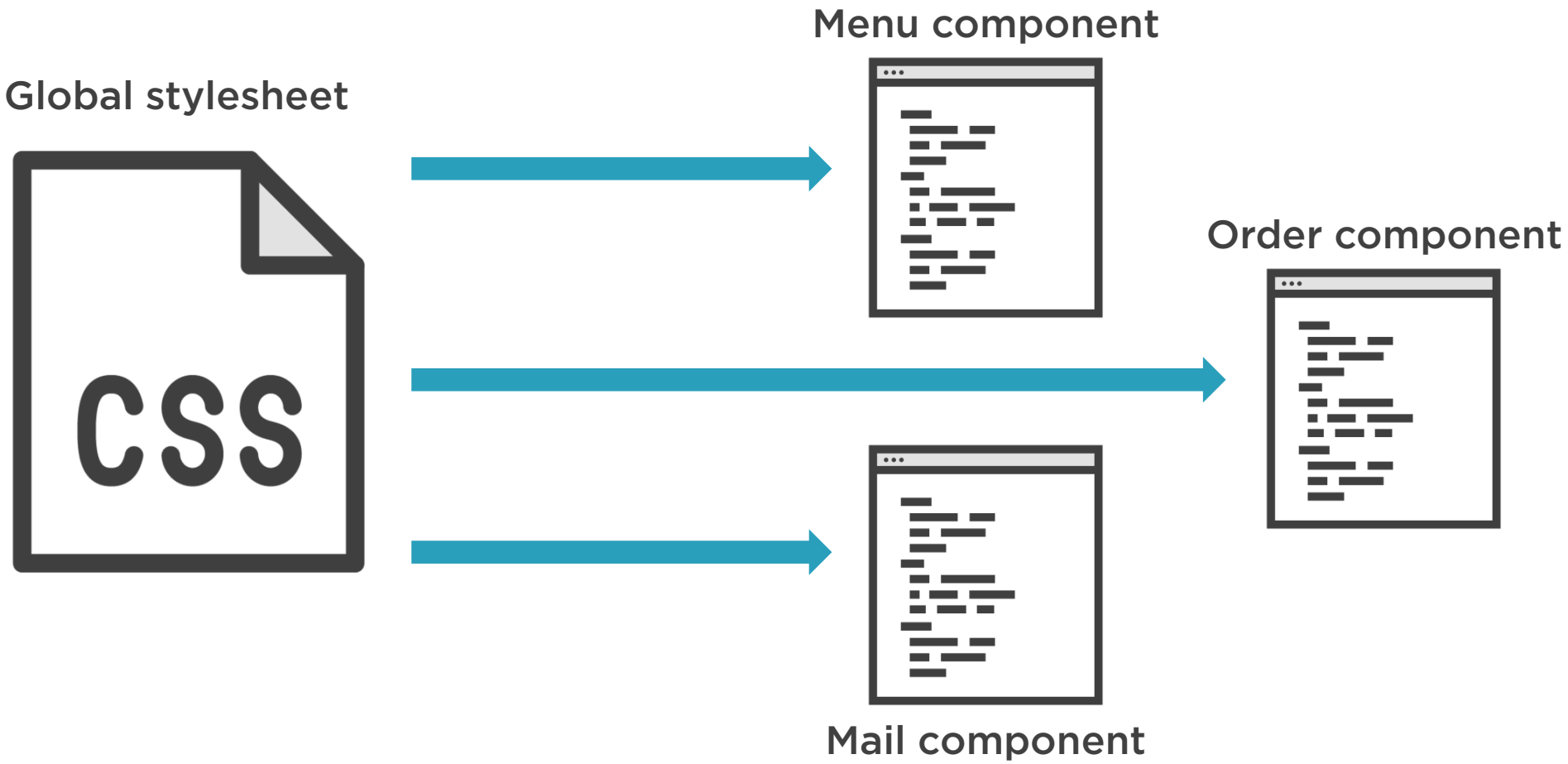
# Understanding Blazor Server

Browser

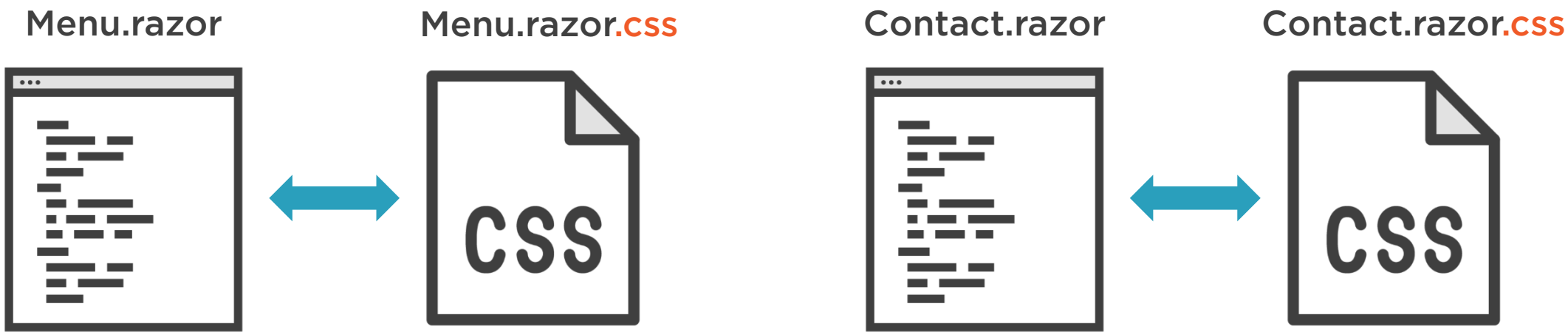
SignalR Web Sockets
manage real time updates

.NET Core and
Blazor processing

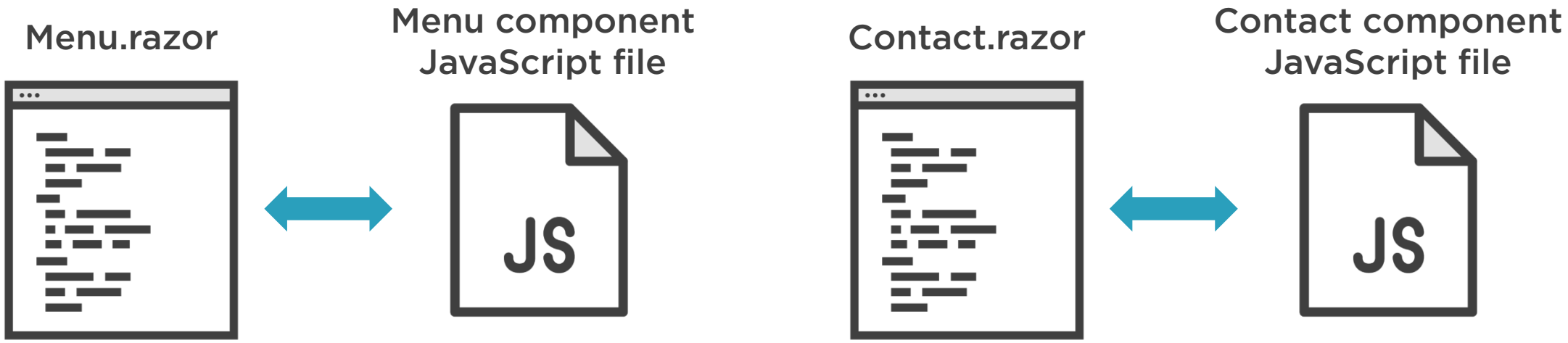
# CSS in Blazor Before .NET 5.0



# Blazor Component CSS Isolation in .NET 5.0



# Blazor Component JavaScript Isolation in .NET 5.0



# Benefits of Code Isolation

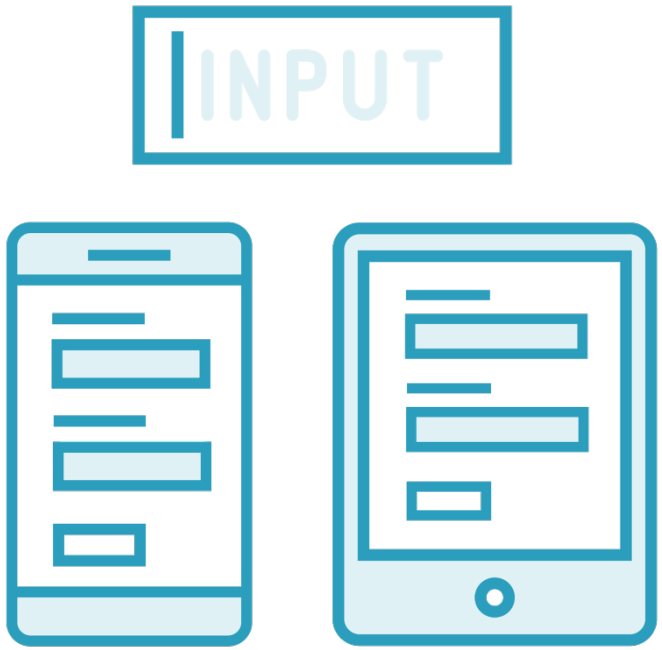
Styles and scripts are scoped to individual components

Components and their assets can be easily packaged

Component consumers do not have to manually import CSS and JavaScript

Smaller, more organized script and CSS files

# Blazor Form Enhancements

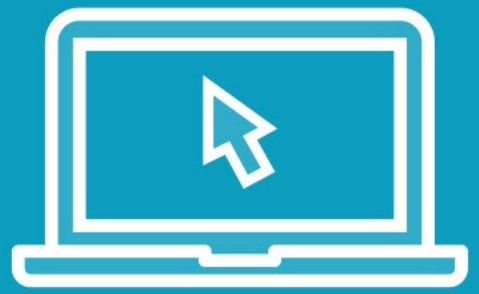



- Radio group and button support
- File uploads
- Customizable validation classes
- DisplayName parameter support
- Input focus helpers

# Additional Features

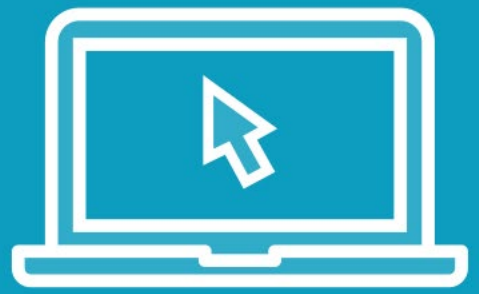
- OnToggle events
- Catch-all route parameters
- Improve globalization
- IAsyncDisposable support
- Full release for browser storage packages (Blazor Server)

# Demo



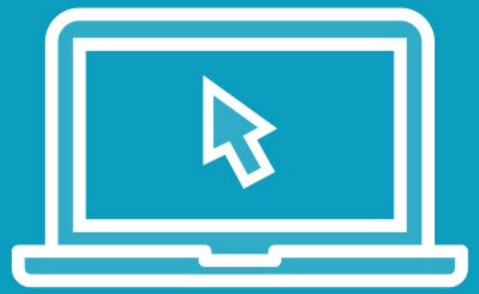
## Faster Development with Dotnet Watch

# Demo



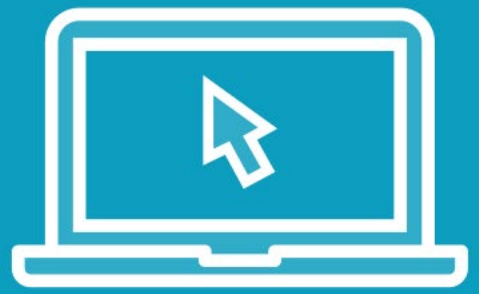
## Improving a Form Using Radio Buttons

# Demo



## Working with File Uploads

# Demo



## JavaScript Isolation with Components

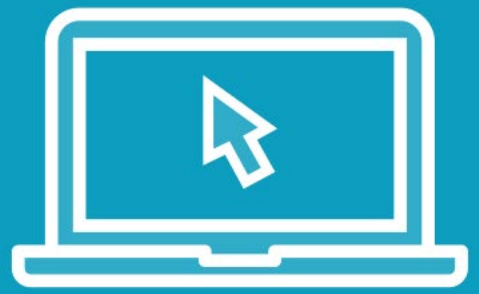
# Reasons to Use JavaScript with Blazor

Need for libraries or code unavailable in Blazor

Need to reuse existing, complex JavaScript code

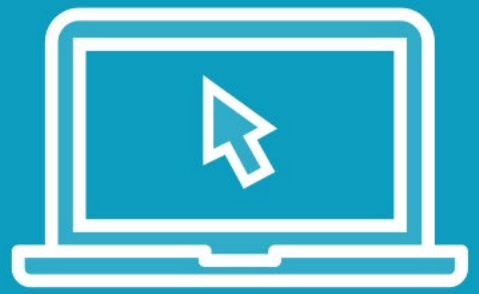
Need to fill Blazor feature gaps

# Demo



## CSS Isolation with Components

# Demo



## Utilizing Isolated Components

# Summary

- ASP.NET in .NET 5.0 includes many updates to Blazor components
- Dotnet Watch can monitor a project for changes and dynamically recompile the app
- The new InputRadio and InputFile components fix feature gaps in Blazor forms
- Blazor components now support CSS and JavaScript isolation
- JavaScript isolation enables components to import scoped JavaScript modules
- CSS isolation uses naming conventions to define component-scoped stylesheets
- These isolation features allow for cleaner, more portable packages