

Angular Styling

- [ngClass] vs [class.class-name]
- inject(DOCUMENT)
- (S)CSS Architecture
- View Encapsulation
- NG 17 View Transitions
- Component Frameworks in NG
- Design Systems for NG

Agenda



[ngClass] vs [class.class-name]

– which one do you like better

```
...

...
```



inject(DOCUMENT)

- use DOCUMENT token
 - when accessing document via Angular
 - to support browser APIs and SSR

```
private readonly document = inject(DOCUMENT);
```

```
// get body
const body = this.document.getElementsByTagName('body')[0];
// scroll to top
this.document.documentElement.scrollTop = 0;
```



(S)CSS Architecture

- Use Component-Based SCSS
 - Avoid global styles except when they make sense
- Consistent Naming, Linting & Formatting
 - Prettier & Stylelint
- Documentation and Comments
 - complex CSS rules, hacks or workarounds
- Third-Party Stylesheets & Component Frameworks
 - mindful of their impact on your styling & performance



View Encapsulation

Emulated

- Usage: Styles scoped to the component via [attribute]
- Pros: Prevents style leakage, access to custom props
- Cons: Pollutes HTML

ShadowDom

- Usage: Uses browser's native shadow DOM
- Pros: Improved performance, accurate scoping
- Cons: No global styles, no custom props

None

- Usage: Disables encapsulation, styles become global
- Pros: For global components, integrating third-party libs
- Cons: Pollutes CSS



Angular 17 View Transitions

```
export const appConfig: ApplicationConfig = {
  providers: [
    provideRouter(
    routes,
    withViewTransitions() // the magic
    ),
  ]
};
```



Angular 17 View Transitions Customization

```
@keyframes fade-in {
 from { opacity: 0 }
@keyframes fade-out {
 to { opacity: 0 }
@keyframes slide-from-right {
 from { transform: translateX(30px) }
@keyframes slide-to-left {
 to { transform: translateX(-30px) }
```

```
::view-transition-old(root) {
 animation:
  90ms cubic-bezier(0.4, 0, 1, 1) both fade-out,
  300ms cubic-bezier(0.4, 0, 0.2, 1) both slide-to-left;
::view-transition-new(root) {
 animation:
  210ms cubic-bezier(0, 0, 0.2, 1) 90ms both fade-in,
  300ms cubic-bezier(0.4, 0, 0.2, 1) both slide-from-right;
```

Component Frameworks

- Angular Material
- PrimeNG
- NG-ZORRO
- Clarity Design
- Canopy



Component Frameworks Customization

- a difficult endeavour
- limit customization
- depending on framework
- maybe a own Design System is a better fit



Angular Material Customization

- theming is supported
 - https://material.angular.io/guide/theming
- custom styling for components
 - by using global SCSS & or component styling (Encapsulation!)
 https://material.angular.io/guide/customizing-component-styles
 - or extend Angular Material's components
 - make sure to integrate with Material SCSS variables
- 3rd party
 - explore libraries and tools that complement Angular Material



Design Systems for NG

- Build your own Component Framework (like Canopy)
- Get some inspiration from the others (previous slide)
- Best Practices
 - Tailwind CSS (!)
 - Semantic HTML elements (button, input, ...) &
 - Material CDK for enhanced accessibility
 - ViewEncapsulation.None
 - Storybook for documentation/testing
 - Standalone Components &
 - ChangeDetetctionStrategy.OnPush for performance



Best Practices

- Use Prettier!
- Use [class.class-name]
 - when dynamic use inline styles [style.property]=
- Put your styles locally into your component.scss
- Organize your global styles with partials
- Use emulated encapsulation as default
- Inject the DOCUMENT token
- Avoid using classes of component frameworks





What else is !important?

What else?



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Summary



