ANGULAR LIBRARY

Beginner to Advanced

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Ant Design of Angular ✎

An enterprise-class Angular UI component library based on Ant Design, all components are open source and free to use under MIT license.

Features

- An enterprise-class UI design language for Angular applications.

- 60+ high-quality Angular components out of the box.

- Written in TypeScript with complete defined types.

- Support OnPush mode, high performance.

- Powerful theme customization in every detail.

- Internationalization support for dozens of languages.

Environment Support

- Modern browsers and Internet Explorer 11+ (with polyfills)

- Server-side Rendering

- Electron

Performance

Change Detection Strategy

- CheckOnce Instead Of CheckAlways
  - https://danielwiehl.github.io/edu-angular-change-detection/
  - Use markForCheck() with CheckOnce strategy
  - Optimize Angular's change detection

- Detach Change Detector
  - Detach change detector to limit how often check occurs

- Zone Flags
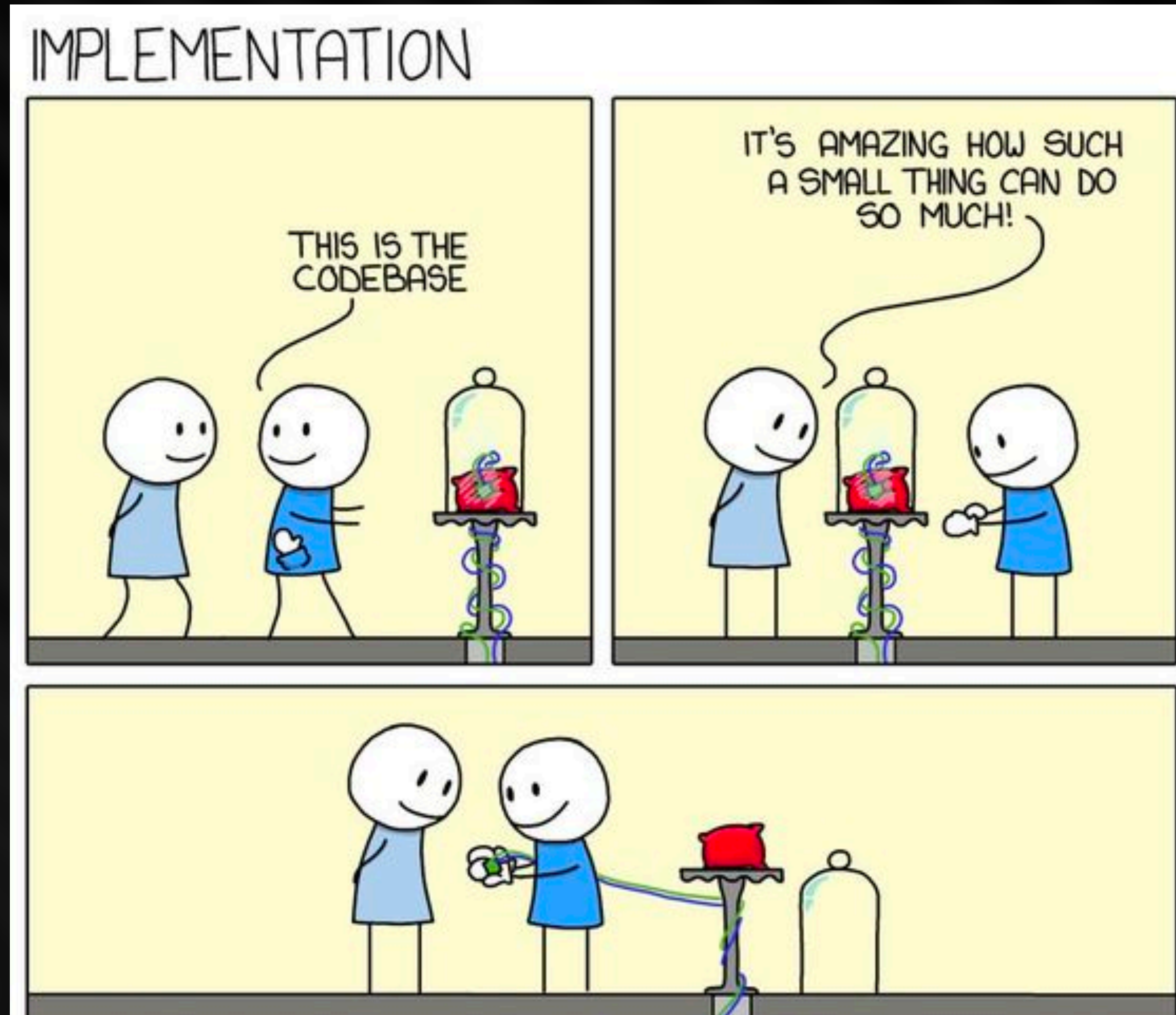 - https://angular.io/guide/zone
  - ngZoneEventCoalescing
  - ngZoneRunCoalescing

- ZoneLess
  - runOutsideAngular
  - markDirty

Bundle Size

Think twice before add dependency

DEPENDENCIES

ARCHIVE

MONKEYUSER.COM
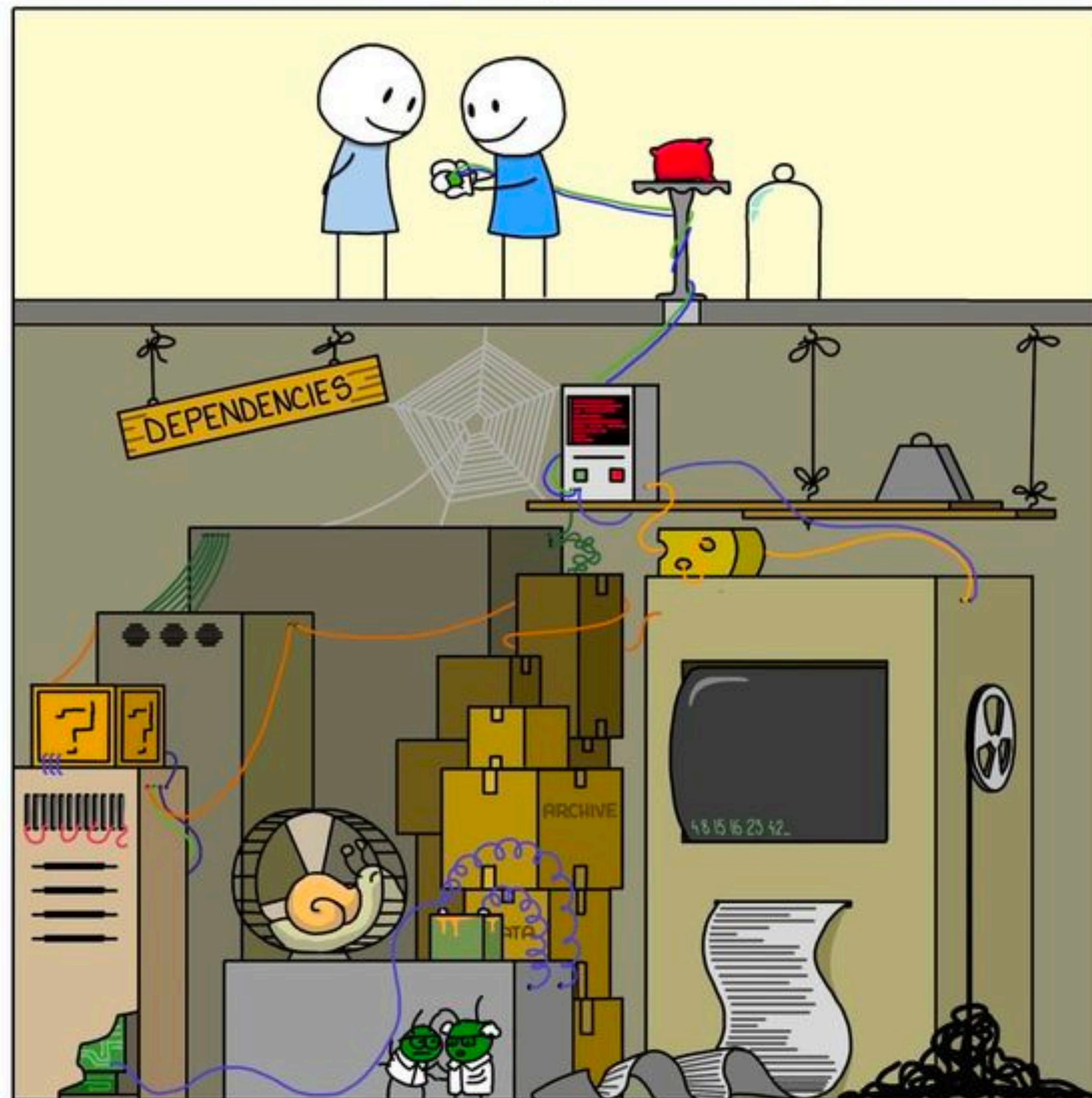
Reduce Bundle Size

- Think twice before add dependency
  - Rage-quit: Coder unpublished 17 lines of JavaScript and "broke the Internet"
  - String.prototype.padStart()
  - Moment bundle size

- ECMAScript Modules
  - ECMAScript modules
  - How CommonJS is making your bundles larger

- Creating Secondary Entry Points
  - https://github.com/ng-packagr/ng-packagr/blob/master/docs/secondary-entrypoints.md
  - Angular Package Format (APF)

- Angular Official Dependency
  - Component Dev Kit (@angular/cdk)
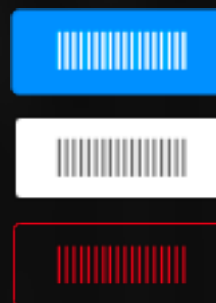
Usability

Element Selector

VS

Attribute Selector

Use Attribute Selector When

- <u>Supporting Original Attributes</u>
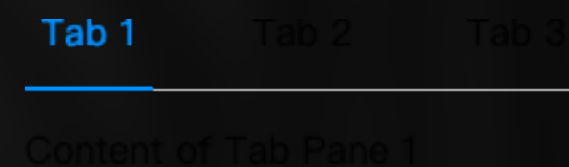- <u>Change the behavior of DOM elements</u>
- Keep DOM structure

Button

Input

<ng-template>

VS

<ng-content>

Use <ng-template> When

- Create multiple copies
- Lazy load child component

Tabs

Tab 1   Tab 2   Tab 3

Content of Tab Pane 1

Space

Projection Child Component

VS

Virtual Child Component

Virtual Child Component When

- Customize complex template
- Reorganize input template

Table

Select

Q&A