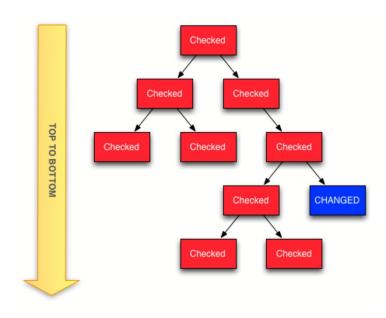
Angular Change Detection

Default Change Detection Mechanism

- 每个组件都有一个change detector
- 一个网页应用有很多组件
- 组件之间相互依赖,形成树状关系
- change detector也遵循这样的树状关系
- 任意一个detector的变化会导致整棵树从上 到下的check.

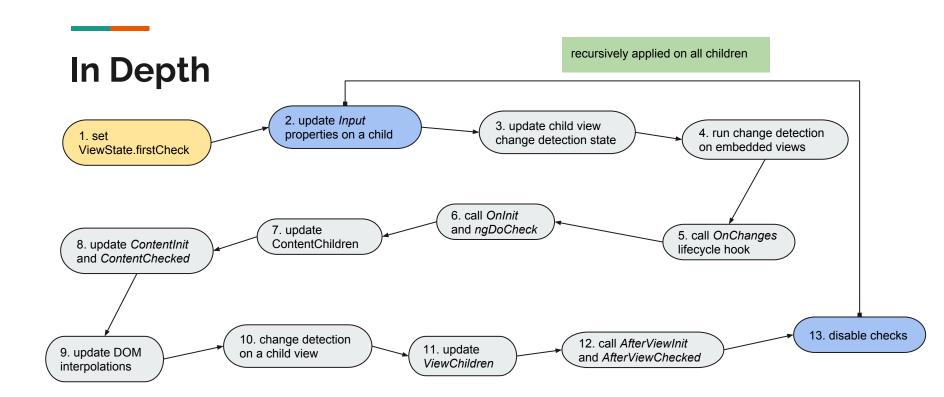


Customize Change Detection

- □ 默认的检测机制可以进一步优化
- □ 可以配置一个组件的ChangeDetectionStrategy来自定义检测机制
- Example: 当Input改变时检测机制 OnPush Strategy

Zones

- ❖ Zones 是Angular用来实现检测机制的库
 - ➤ DOM
 - > HTTP
 - > Timer
- ◆ 有些可能不受控制的情景
 - > Third party library that runs asynchronously
 - > Immutable data
 - Observable
- Solution: OnPush Strategy



In Depth

如果有一个A->B->C的继承结构,

那么lifecycle hook的调用顺序是这样的:

A: AfterContentInit

A: AfterContentChecked

A: Update bindings

B: AfterContentInit

B: AfterContentChecked

B: Update bindings

C: AfterContentInit

C: AfterContentChecked

C: Update bindings

C: AfterViewInit

C: AfterViewChecked

B: AfterViewInit

B: AfterViewChecked

A: AfterViewInit

A: AfterViewChecked

Reference

- Everything you need to know about change detection in Angular
- The Mechanics of DOM updates in Angular