#angular: Component lifecycle

constructor

ngOnChanges

ngOnInit

ngDoCheck

ngAfterContentInit

ngAfterContentChecked

ngAfterViewInit

ngAfterViewChecked
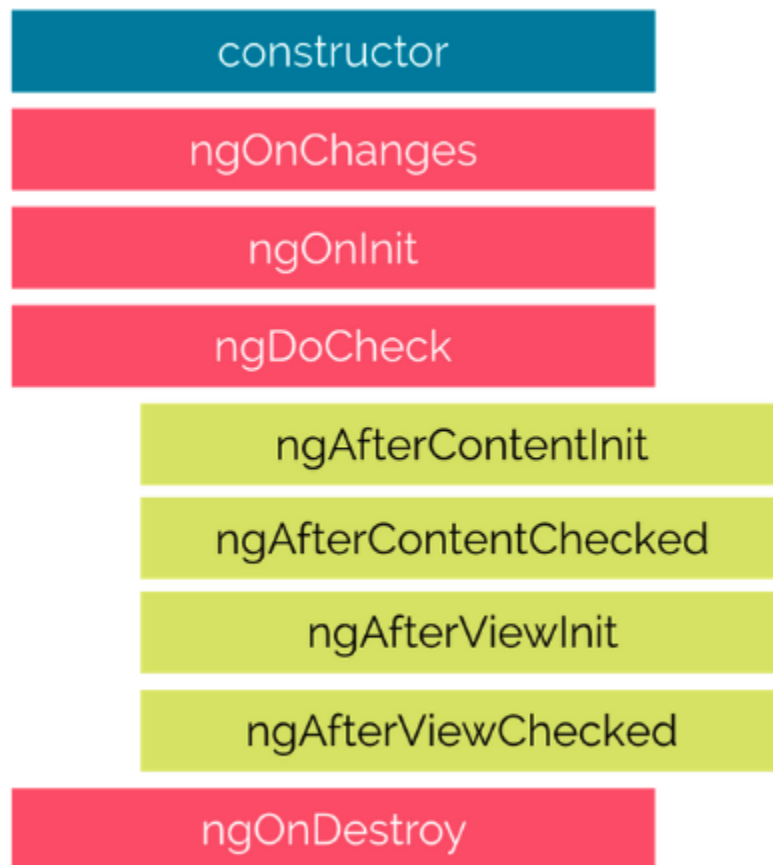
ngOnDestroy

- A component in Angular has a life-cycle, a number of different phases it goes through from birth to death.
- Life cycle phases are called hooks that allow us to spy on specific stages in the lifecycle of a component and apply custom logic.
- They are entirely optional to use.
- Some hooks are considered best practice to use, while others help with debugging and understanding what happens in an Angular app.

In this tutorial, I will discuss about 5 stages of component lifecycle:
1. **constructor:** This is invoked when Angular creates a component or directive by calling new on the class. Constructors should be relatively empty and devoid of logic other than setting initial variables.

2. **ngOnChanges:** Invoked every time there is a change in one of the input properties of the component.
3. **ngOnInit:** Invoked when a given component has been initialized. At this stage, all input bindings and data-bound properties have been set appropriately, and we can safely use them. Another good use of the OnInit hook is when we need to initialize a component with data that comes from an external source, such as an Angular service.
4. **ngDoCheck:** Invoked when the change detector of the given component is invoked. It allows us to implement our own change detection algorithm for the given component.
5. **ngOnDestroy:** This method will be invoked just before Angular destroys the component. Use this hook to unsubscribe observables and detach event handlers to avoid memory leaks.

Lifecycle

ngOnChanges	Called after a bound input property changes
ngOnInit	Called once the component is initialized
ngDoCheck	Called during every change detection run
ngAfterContentInit	Called after content (ng-content) has been projected into view
ngAfterContentChecked	Called every time the projected content has been checked
ngAfterViewInit	Called after the component's view (and child views) has been initialized
ngAfterViewChecked	Called every time the view (and child views) have been checked
ngOnDestroy	Called once the component is about to be destroyed

Reference:
- https://codecraft.tv/courses/angular/components/lifecycle-hooks/
- https://guodongh.github.io/2019/08/22/Angular-8-Lifecycle-Hooks-Template-reference-variables-and-Carousel/

- https://www.amazon.com/Learning-Angular-no-nonsense-applications-TypeScript-dp-1839210664/dp/1839210664/ref=mt_other?_encoding=UTF8&me=&qid=

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