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# Information about Life Cycle Hooks

| **Hook** | **Interface** | **When it runs** | **Common Use** |
| --- | --- | --- | --- |
| **ngOnChanges()** | OnChanges | When an @Input() property changes (before ngOnInit). | React to input property changes from parent. |
| **ngOnInit()** | OnInit | Once, after the first ngOnChanges(). | Initialize data, call APIs, setup component state. |
| **ngDoCheck()** | DoCheck | Called on every change detection cycle. | Custom change detection logic. |
| **ngAfterContentInit()** | AfterContentInit | After <ng-content> has been projected into the component. | Interact with projected content. |
| **ngAfterContentChecked()** | AfterContentChecked | After every check of projected content. | Run logic after content updates. |
| **ngAfterViewInit()** | AfterViewInit | After component’s view (and child views) initialized. | Access @ViewChild or @ViewChildren elements. |
| **ngAfterViewChecked()** | AfterViewChecked | After every check of the component’s views. | Detect view updates. |
| **ngOnDestroy()** | OnDestroy | Just before the component is destroyed. | Clean up subscriptions, event listeners, intervals. |

# How Hooks are called and rendered

|  |
| --- |
| When a component loads for the first time, Angular calls hooks in this order:  ngOnChanges() → ngOnInit() → ngDoCheck()  → ngAfterContentInit() → ngAfterContentChecked()  → ngAfterViewInit() → ngAfterViewChecked()  Then, every time something changes (e.g., inputs or bindings):  ngOnChanges() → ngDoCheck()  → ngAfterContentChecked() → ngAfterViewChecked()  When the component is destroyed:  ngOnDestroy() |

# When and where hooks are called at the time of application or Component load

| **Stage** | **Purpose** |
| --- | --- |
| 🏗 **Creation** | constructor → ngOnChanges → ngOnInit |
| 🔁 **Change Detection** | ngDoCheck → ngAfterContentChecked → ngAfterViewChecked |
| 📦 **Content Projection** | ngAfterContentInit |
| 🧱 **View Initialization** | ngAfterViewInit |
| 🧹 **Cleanup** | ngOnDestroy |