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Components Deep Dive

angular-architects.io

Contents

- Interacting with Content
- Interacting with View
- Working with Handles
- Providers vs. ViewProviders



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Why is this Interesting?

- Reusable Components (Component Libraries)
- Better Understanding for Angular



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Interacting with a Component's **Content**



Case Study #1: Tabbed Pane

Upcoming Flights Operated Flights Cancelled Flights

Upcoming Flights

| | | | |
|---|---------|-----------|------------------|
| 1 | Hamburg | Berlin | 01.02.2025 17:00 |
| 2 | Hamburg | Frankfurt | 01.02.2025 17:30 |
| 3 | Hamburg | Mallorca | 01.02.2025 17:45 |



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Tabbed Pane

```
<app-tabbed-pane>
  <app-tab title="Upcoming Flights">
    <p>No upcoming flights!</p>
  </app-tab>

  <app-tab title="Operated Flights">
    <p>No operated flights!</p>
  </app-tab>

  <app-tab title="Cancelled Flights">
    <p>No cancelled flights!</p>
  </app-tab>
</app-tabbed-pane>
```



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View vs. Content



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View vs. Content

```
@Component({
  selector: 'tab',
  template: `
    <div *ngIf="visible">
      <h1>{{title}}</h1>
      <div>
        <ng-content></ng-content>
      </div>
    </div>
  `
})
export class TabComponent {
  @Input() title: string;
  visible: boolean = true;
}
```

View

Content

Sample Text ...



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Hooks

- 1) ngOnChanges
- 2) ngOnInit
- 3) ngDoCheck
- 4) ngAfterContentInit
- 5) ngAfterContentChecked
- 6) ngAfterViewInit
- 7) ngAfterViewChecked
- 8) ngOnDestroy



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Hooks

- 1) ngOnChanges
- 2) ngOnInit
- 3) ngAfterContentInit**
- 4) ngAfterViewInit**
- 5) ngOnDestroy



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Handles



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Handles

```
<app-tabbed-pane #pane>  
  [...]  
</app-tabbed-pane>
```

Current Page: {{ pane.currentPage }}



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ViewProviders



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Providers

```
@Component({  
  providers: [NavigatorService]  
})  
export class TabbedPaneComponent {  
  [...]  
}
```



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Providers

```
@Component({  
  providers: [NavigatorService] // Visible in View and Content  
})  
export class TabbedPaneComponent {  
  [...]  
}
```



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View Providers

```
@Component({  
  viewProviders: [NavigatorService] // Visible only in View  
})  
export class TabbedPaneComponent {  
  [...]  
}
```



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Summary

- Content vs. View
- [Content | View][Child | Children]
- Handles
- Providers vs. ViewProviders



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