

Angular

Styles & Animations

Getting Started

What to expect from this course

This Course is about ...

Styling Angular Apps & Components

Tools Angular gives you to Style your Apps,
Components and HTML Elements

How to use CSS Transitions and Animations in Angular
Apps

Understanding the Angular Animation Package In-
Depth

Practicing all these Things

This Course is not about ...

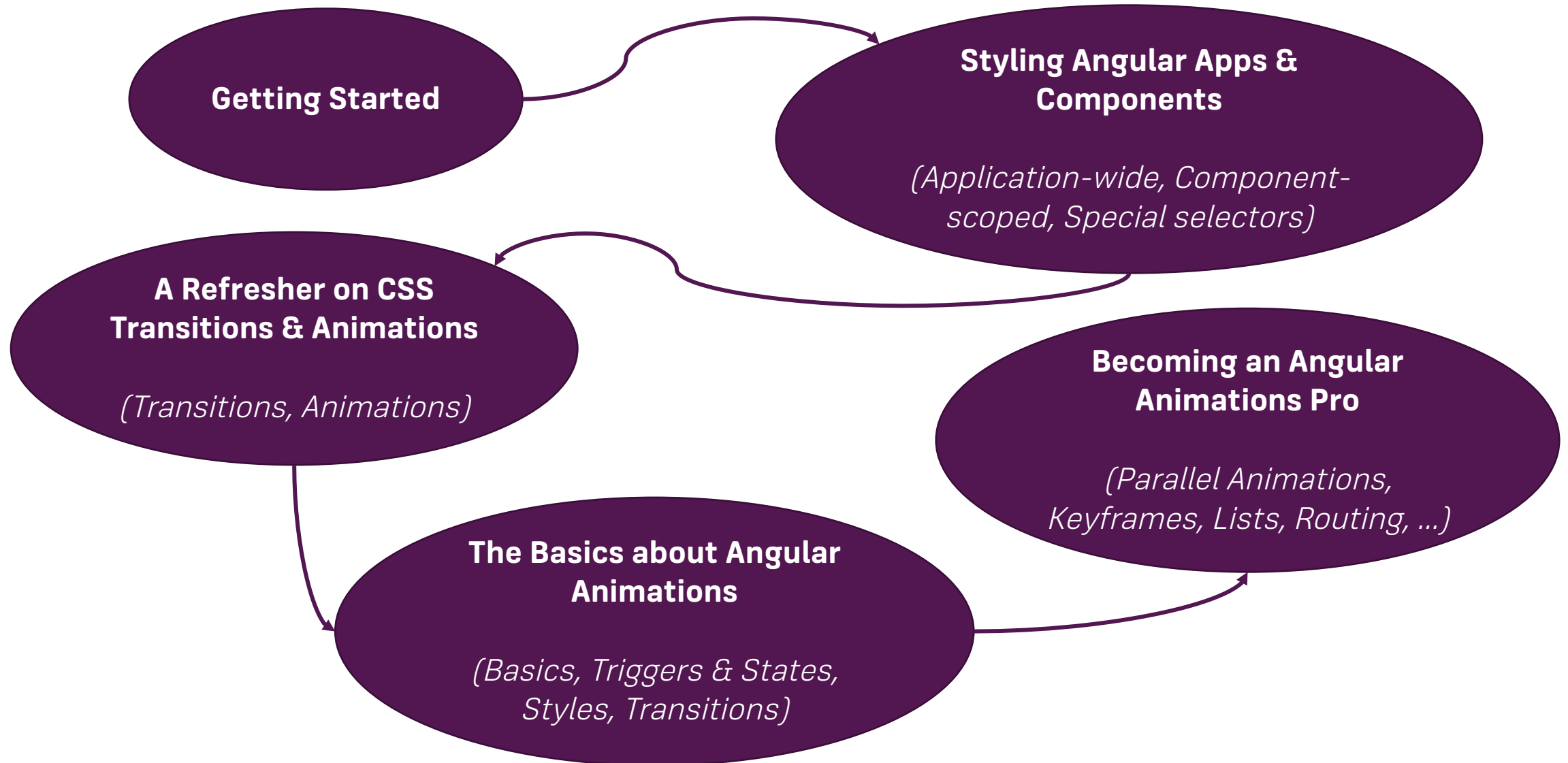
Learning CSS

Learning CSS Transitions & Animations

Learning or Using SASS, SCSS, LESS...

Learning Angular

Course Structure



How to get the Most out of the Course

Watch the Videos

Do the Course Project

Ask in Q&A, but ...

...also answer in Q&A!

Styling Angular Apps

How to make your apps look beautiful

Using "Normal" CSS

Application-wide Styles

Import in `index.html`
Import (via Webpack) in `other Files`

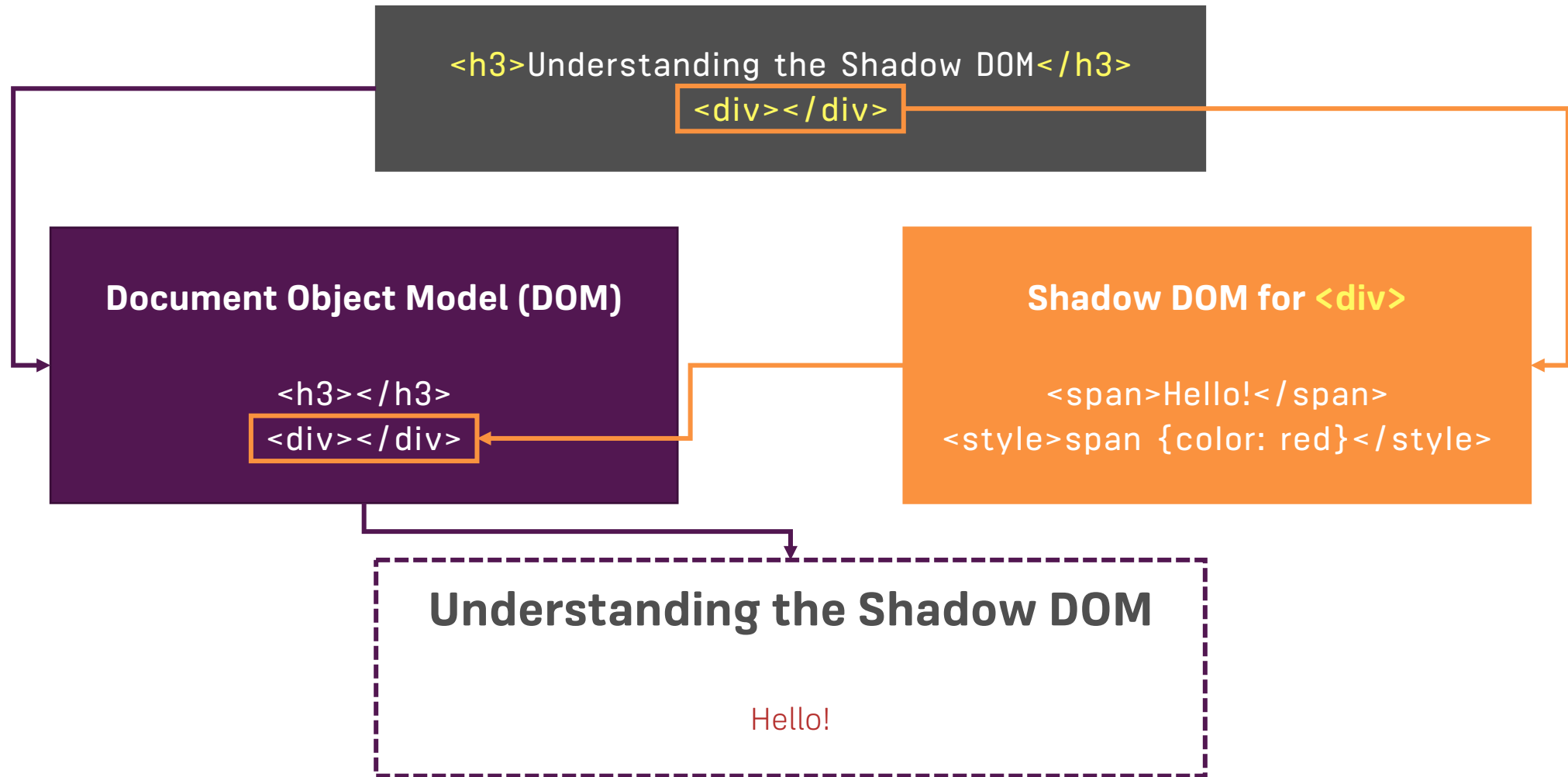
Component-scoped Styles

Use `styles` or `styleUrls` property in @Component Decorator
Add `<style>` or `<link>` Tags to your Component Templates

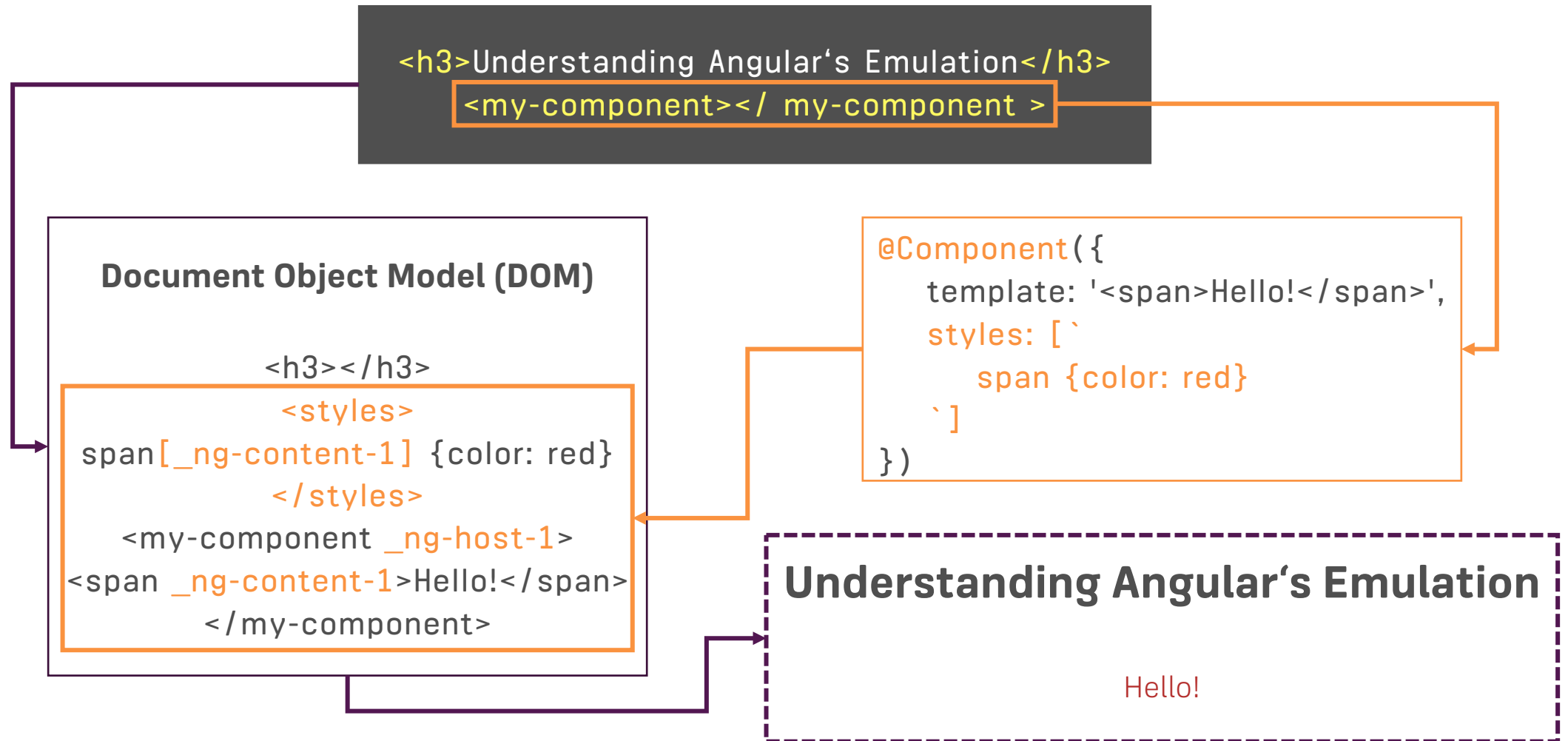
Understanding View Encapsulation

Angular **emulates** the **Shadow DOM** and therefore **encapsulates** **Styles** defined in **styles** or **styleUrls** on component level.

Understanding the Shadow DOM



Understanding Angular's Emulation



Understanding Angular's Emulation

```
@Component: {
```

```
...
```

```
  encapsulation: ViewEncapsulation.Emulated
```

```
}
```



Default

ViewEncapsulation.Native



Uses native Shadow DOM

ViewEncapsulation.None



Styles are shared across Components

Special Selectors

`:host`

Targets the **element** which **hosts the Component**

`:host-context`

Style elements **inside a component**, depending on some **condition** set outside of it

`/deep/`

Apply styles **not just** to the elements in the template but also to **child components**

ngClass

Conditionally apply CSS Classes to Elements

```
[ngClass]="{class1: condition}"
```

```
[ngClass]="'class1 class2'"
```

```
[ngClass]="[class1 class2]"
```

```
[ngClass]="{'class1 class2': condition}"
```

Or use any **expression** (e.g. function call) which returns one of the valid **values**!

ngStyle

Dynamically apply CSS Styles to Elements

```
[ngStyle]="{'background-color': 'red'}"
```

```
[ngStyle]="{'width.px': 200}"
```

Or use any **expression** (e.g. function call) which returns one of the valid **values**!

Using CSS Animations

How and When to use them

CSS Transition Property

```
div {  
  transition: width 0.3s ease-out;  
}
```



Whenever the `width` of this `<div>` changes, the change is going to get `animated` over `0.3 seconds` (with an `ease-out` timing function)

CSS Animations

```
div {  
  animation: myAnimation 0.3s ease-out forwards;  
}
```

```
keyframes myAnimation {  
  0% {  
    opacity: 0  
  }  
  100% {  
    opacity: 1  
  }  
}
```

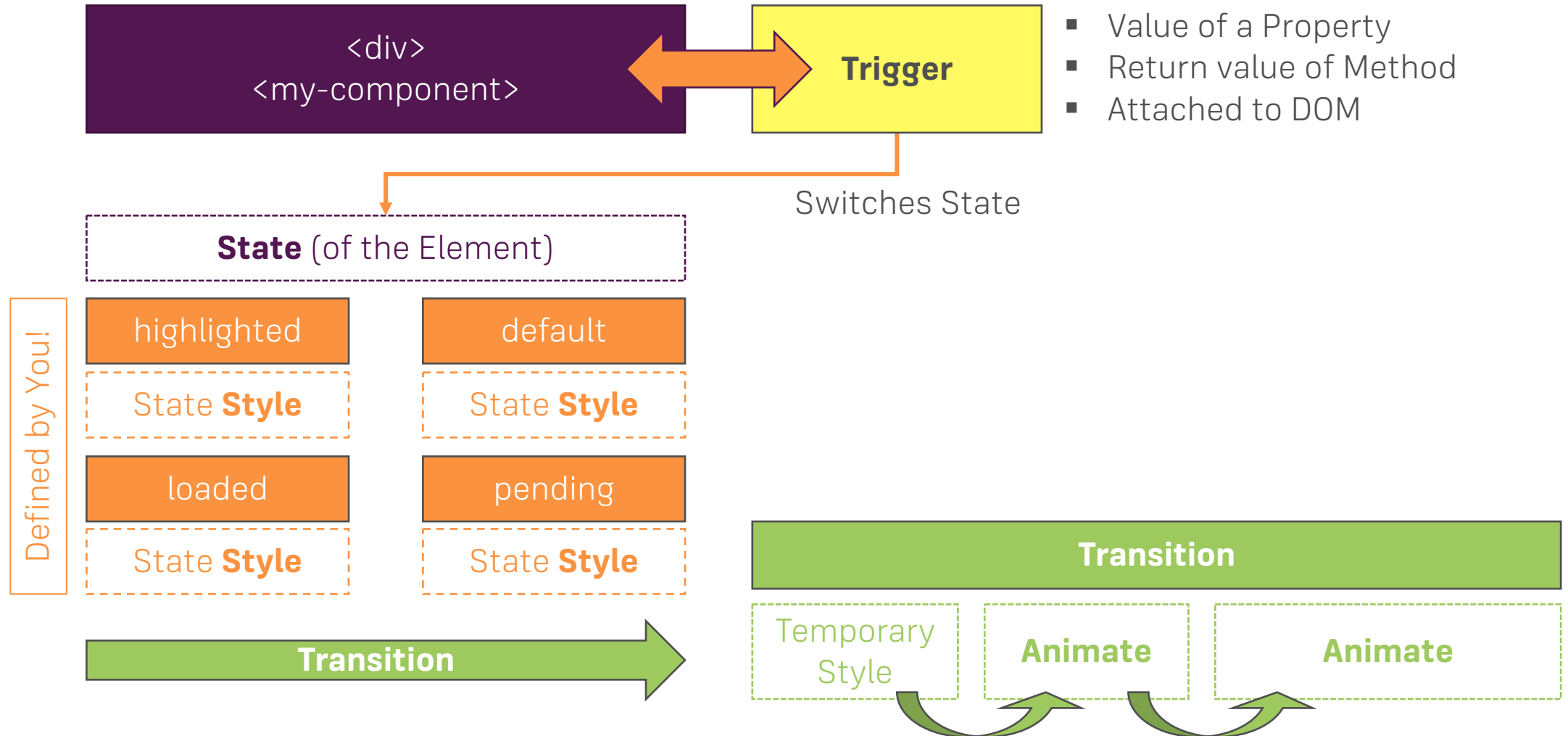


Animates the **opacity** of the **div** over a **duration of 0.3 seconds** (with an **ease-out timing function**) from 0 (fully opaque) to 1 (fully visible) and **keeps the final animation status** as the element style.

The Basics About the Angular Animations Library

How to use the Angular Animations Library

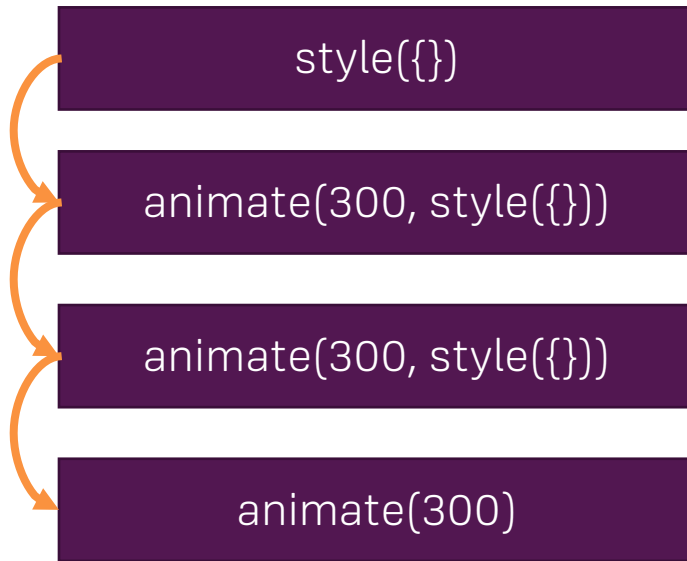
How Angular Animations Work



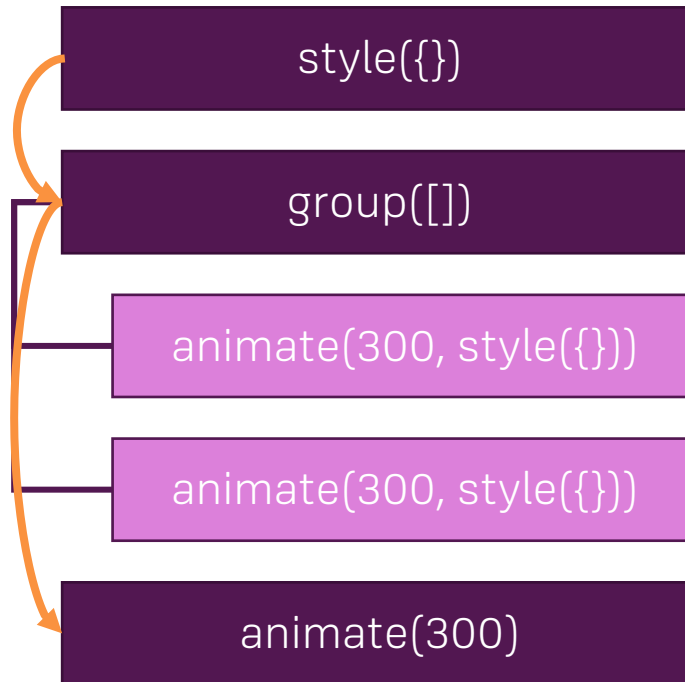
Becoming an Angular Animations Pro

Diving deeper into the Angular Animations Library

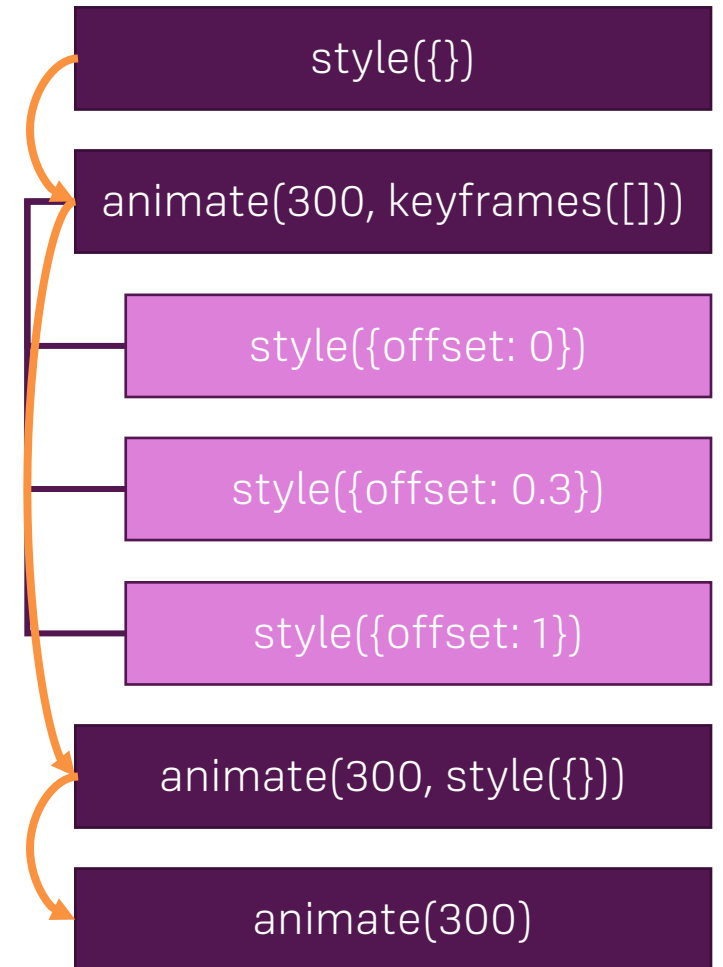
Multi-Step vs group() vs keyframes()



3 Steps (900ms)



2 Steps (600ms)



3 Steps (900ms)

Animating Route Transitions

Show the User what's happening!

Animating Routing

