

# Animations

3. :enter, :leave animations

### :enter, :leave animations



- There are two repeating scenarios when animating elements
  - animating an entering element
  - animating a leaving element
- Those kind of animation will direct the user attention to the change in the screen.
- In this lesson we will learn how to create those kind of animations

# EX animate \*nglf



- Our first exercise for this lesson is to practice basic entering and leaving element.
- We will create a simple component and a text, the text will have an \*nglf that when clicking the button will be toggled true/false
- The text will have an entering and exiting animation.

### \* => void, void => \*, :enter, :leave



- Angular defines an animation state of void, when the element is removed
- Angular defines a catch all state with \*
- in the transition you can specify \* => void to specify a remove of an elements
- in the transition you can specify void => \* to specify animation for entering element
- Angular provide shortcuts for entering and leaving animations: :enter, :leave

```
import { style } from 'dangular/animations';
style({
  opacity: 1
})
```

# fadeInLeft, fadeOutRight



 so a transition for entering and leaving element with a fade and movement can look like this:

```
transition(':enter', [
    style({
        opacity: 0,
        transform: 'translate3d(-100%, 0, 0)'
    animate('2s ease-out', style({
        opacity: 1,
        transform: 'translate3d(0, 0, 0)'
    }))
```

```
transition(':leave', [
    style({
        opacity: 1,
        transform: 'translate3d(0, 0, 0)'
   animate('2s ease-in', style({
        opacity: 0,
        transform: 'translate3d(100%, 0, 0)'
    }))
```

### keyframes



- keyframes are attached to the animate to specify steps along the animation
- similar to @keyframes in css
- you can specify offset to specify the percentage when this keyframe is applied

# **EX Bouncing effect**



using the keyframes we can add a bouncing effect to our enter animation

```
transition(':enter', [
 animate('1s ease-out', keyframes([
    style({
     opacity: 0,
      transform: 'translate3d(-100%, 0, 0)',
     offset: 0
    }),
    style({
      transform: 'translate3d(5%, 0, 0)',
     offset: 0.9,
     opacity: 0.9,
    style({
      opacity: 1,
      transform: 'translate3d(0, 0, 0)',
      offset: 1
```

### Summary



- In this lesson we learned how angular gives us tools to transition enter and leave animation for elements
- On the next lesson we will take it a bit further and learn to add the principles we learned to animate a list of elements.

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# Thank You

Next Lesson: 4. Animating a list