

### **UI and Animation**



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### Enhancing the UI with Bootstrap

Animation Overview

The ngAnimate Module

Defining Animations in CSS

Referencing Animation Classes

### **Enhancing the UI with Bootstrap**

### **Animation Overview**

### **Animations in AngularJS**

Animation hooks for built-in & custom directives

Animations triggered by different scenarios

Include ngAnimate module

#### **Directives and Animations**

#### **Common Directives**

- ngClass
- ngHide/ngShow
- ngInclude
- ngRepeat
- ngSwitch
- ngView

#### **Custom Directives**

• \$animate service

### **Directives and Supported Animations**

Directive	Supported Animations
ngClass	Add and remove
ngHide/ngShow	Add and remove
ngInclude	Enter and leave
ngRepeat	Enter, leave, move
ngSwitch	Enter and leave
ngView	Enter and leave

## The ngAnimate Module

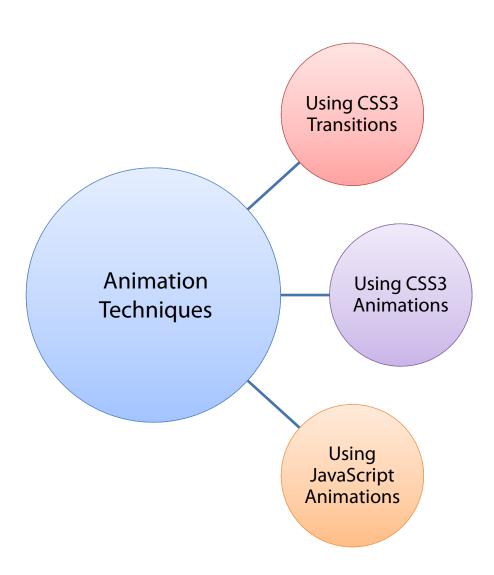
### The ngAnimate Module

- AngularJS animation functionality is located in the ngAnimate module
- Add a <script> that loads angular-animate.js
- Reference ngAnimate in your module:

```
var demoApp = angular.module('customersApp', ['ngAnimate']);
```

### **Defining Animations in CSS**

### **Animation Techniques**



### **Defining Animations with CSS**

• Animations can be defined multiple ways using CSS:

□ CSS3 Transitions

```
transition: 0.5s linear all;
```

□ CSS3 Animations

```
animation: 0.5s name-of-keyframe-animation;
```

### **CSS Transitions Example**

```
.slide-animation.ng-enter, .slide-animation.ng-leave {
   transition: 0.5s linear all;
   position:relative;
   left: 0;
   right: 0;
   height: 600px;
}
.slide-animation.ng-enter {
                                   .slide-animation.ng-leave {
                                     z-index:101;
 z-index:100;
                                     opacity:1;
 left:100px;
                                     left:0;
 opacity:0;
```

### **CSS Animations Example - Enter**

```
.slide-animation.ng-enter {
  animation: 0.5s slide-animation-enter;
}
@keyframes slide-animation-enter {
  from {
    z-index:100;
    left:100px;
    opacity:0;
  to {
    left:0px;
    opacity:1;
```

### **CSS Animations Example - Leave**

```
.slide-animation.ng-leave {
  animation: 0.5s slide-animation-leave;
}
@keyframes slide-animation-leave {
  from {
    z-index:101;
    left:0px;
    opacity:1;
  to {
    left:-100px;
    opacity:0;
```

## **Referencing Animation Classes**

### **Animations Referenced by Class**

 Directives can reference animations using the class attribute:

```
Animation to run

<div ng-view
    class="slide-animation"></div>

<div ng-show="listViewEnabled"
    class="show-hide-animation" >...</div>

<div ng-repeat="cust in customers"
    class="repeat-animation">...</div>
```

# Summary

#### Summary

- AngularJS provides built-in support for animations using CSS or JavaScript
- Reference the ngAnimate script and module
- Several directives such as ng-view and ng-repeat support animations
- Use CSS transitions or animations to create custom animations