

ANIMATION IN ANGULARJS

- AngularJS provides much more support for animate the application for better user experience.
- We can use the transition effects and CSS for animation.
- To use AngularJS Animation we should include “[angular-animate.js](#)” [JavaScript](#) source file from [googleapis.com](#).
- We should specify the AngularJS application dependency as ngAnimate module.
- Angular does not animate the HTML elements directly, we should use instead CSS or JS but Angular Animation Provides Additional support for animation.

Directive Support for Animation:

Directive	Animation Support
ng-repeat	enter, leave and move
ng-view	enter and leave
ng-include	enter and leave
ng-switch	enter and leave
ng-if	enter and leave
ng-class	add and remove (the CSS class(es) present)
ng-show	add and remove
form & ng-model	add and remove (dirty, pristine, valid, invalid & all other validations)
ngMessages	add and remove (ng-active & ng-inactive)
ngMessage	enter and leave
ng-hide	add and remove (the ng-hide class value)



Example Classes for ng-show directive Support for Animation:

- ng-animate
- ng-show-animate
- ng-show-add
- ng-show-remove
- ng-show-add-active
- ng-show-remove-active

Sample code for Animation in AngularJS:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorials</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/angular.min.js" ></script>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/angular-animate.min.js" ></script>
    <style>
      h2 {
        border:1px ;
        margin-top:15px;
        padding:15px;
        background:#12AA44;
        -webkit-transition:all linear 0.5s;
        transition:all linear 0.5s;
      }
      h2.bigger {
        font-size:40px;
      }
    </style>
```



```
</head>
<body>
  <h1>AngularJS Animation Tutorial </h1>
  <div ng-app="aniApp" ng-controller=" aniCtrl" >
    < h2 ng-class=" { 'bigger': big}" >
      Click the button to toggle small or big.
    </h2>
    < button ng-click=" big = !big" >Set big = {{ big }} </ button >
  </div>
  <script>
    var App = angular.module("aniApp", ['ngAnimate']);
    App.controller ("aniCtrl ", function($scope) {
      $scope.big = false;
    });
  </script>
</body>
</html>
```

How to include AngularJS Animation Library file:

- To use AngularJS Animation we should include **"angular-animate.js"** JavaScript source file from [googleapis.com](https://ajax.googleapis.com).

```
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/ 1.5.6/angular-
animate.min.js" > </script>
```

How to make the Application as AngularJS Animation:

- **['ngAnimate']** is used to define the application as Animation dependent module.



```
var App = angular.module("myApp", ['ngAnimate']);
```

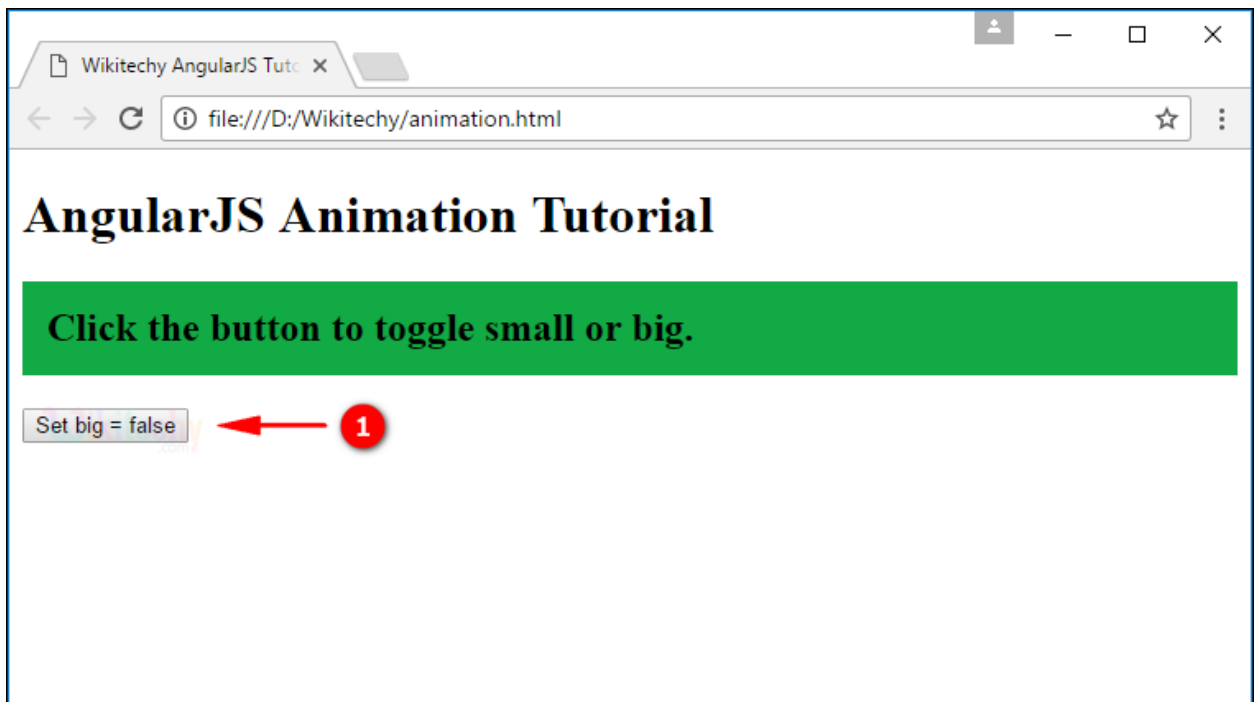


Code Explanation for Animation in AngularJS:

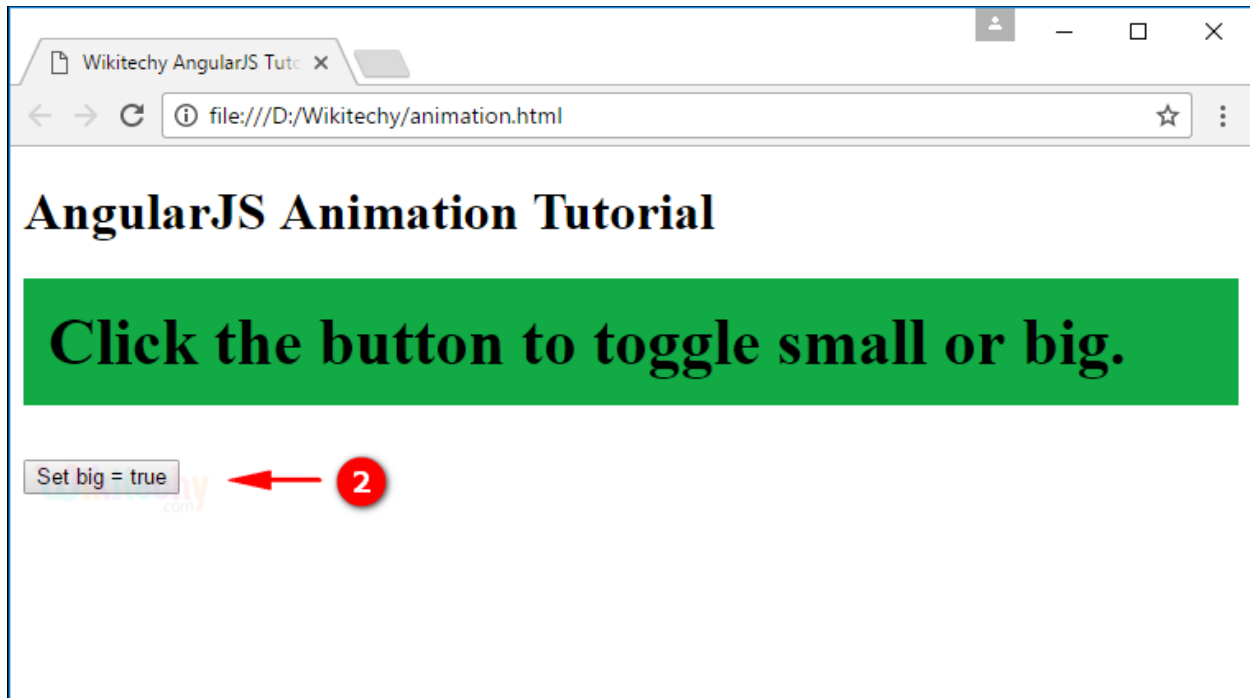
```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorials</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/angular.min.js"></script>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/angular-animate.min.js"></script> ← 1
    <style>
      h2 {
        border:1px ;
        margin-top:15px;
        padding:15px;
        background:#12AA44;
        -webkit-transition:all linear 0.5s;
        transition:all linear 0.5s;
      }
      h2.bigger {
        font-size:40px; ← 3
      }
    </style>
  </head>
  <body>
    <h1>AngularJS Animation Tutorial</h1>
    <div ng-app="aniApp" ng-controller="aniCtrl">
      <h2 ng-class="{ 'bigger': big}">
        Click the button to toggle small or big.
      </h2>
      <button ng-click="big = !big">Set big = {{ big }}</button> ← 5
    </div>
    <script>
      var App = angular.module('aniApp', ['ngAnimate'] );
      App.controller('aniCtrl', function($scope) {
        $scope.big = false; ← 7
      });
    </script>
  </body>
</html>
```

1. To use AngularJS Animation we should include "[angular-animate.js](#)" [JavaScript](#) source file from [googleapis.com](#).
2. The set of CSS styles for <h2> tag which displays the <h2> tag content in a green box.
3. The **h2.bigger** CSS class is used to set the large font size for the <h2> tag.
4. The `ng-class="{ 'bigger' : big}"` is used to toggle the **bigger** CSS class enable or disable.
5. The button used to enable or disable the CSS by the variable big.
6. The [angular.module](#) used to create an Application module for "**aniApp**" with [**ngAnimate**'] for the application as Animation dependent module.
7. To initiate the "**big**" variable as **false**.

Sample Output for Animation in AngularJS:



1. Set big button used to toggle the content looks bigger or smaller.



2. When user click the **“Set big= false”** then that will be changed as **“Set big=true”** and the font size of <h2> tag content will be increased.