

AngularJs – Notes

What is Routing in AngularJS?

If you want to navigate to different pages in your application, but you also want the application to be a SPA (Single Page Application), with no page reloading, you can use the **ngRoute** module.

The **ngRoute** module routes your application to different pages without reloading the entire application.

Step 1 :

To make your applications ready for routing, you must include the AngularJS Route module:

```
<script  
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular-route.js"></script>
```

Step 2 :

Then you must add the **ngRoute** as a dependency in the application module:

```
var app = angular.module("myApp", ["ngRoute"]);
```

Step 3:

Now your application has access to the route module, which provides the **\$routeProvider**.

Use the **\$routeProvider** to configure different routes in your application:

```
app.config(function($routeProvider) {  
    $routeProvider  
        .when("/", {  
            templateUrl : "main.htm"  
        })  
        .when("/red", {
```

```
templateUrl :"red.htm"
})
.when("/green", {
templateUrl :"green.htm"
})
.when("/blue", {
templateUrl :"blue.htm"
});
});
```

Step 4 :

Your application needs a container to put the content provided by the routing.

This container is the **ng-view** directive.

There are three different ways to include the **ng-view** directive in your application:

```
<div ng-view></div> || <ng-view></ng-view> || <div class="ng-view"></div>
```

Controllers

With the **\$routeProvider** you can also define a controller for each "view".

```
.when("/paris", {
templateUrl :"paris.htm",
controller :"parisCtrl"
});
})
app.controller("londonCtrl",function($scope) {
$scope.msg="I love London";
});
```

```
app.controller("parisCtrl",function($scope) {  
$scope.msg="I love Paris";
```

Template

In the previous examples we have used the `templateUrl` property in the `$routeProvider.when` method.

You can also use the `template` property, which allows you to write HTML directly in the property value, and not refer to a page.

The otherwise method

In the previous examples we have used the `when` method of the `$routeProvider`.

You can also use the `otherwise` method, which is the default route when none of the others get a match.

What is an Animation ?

An animation is when the transformation of an HTML element gives you an illusion of motion.

Step 1:

To make your applications ready for animations, you must include the AngularJS Animate library:

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

Step 2:

Then you must refer to the `ngAnimate` module in your application:

```
<body ng-app="ngAnimate">
```

or

Or if your application has a name, add `ngAnimate` as a dependency in your application module:

```
<body ng-app="myApp">  
  
<h1>Hide the DIV: <input type="checkbox" ng-  
model="myCheck"></h1>  
  
<div ng-hide="myCheck"></div>  
  
<script>  
var app = angular.module('myApp', ['ngAnimate']);  
</script>
```

Step 3: