

ROUTING IN ANGULARJS

- The AngularJS Supports **Single Page Application** (SPA) which shows multiple view templates on a single page.
- We can use the ngRoute module for navigate the multiple pages without reload the page.
- To use routing we should include AngularJS "[angular-route.js](#)" JavaScript source file from [googleapis.com](#).
- The following supports are given by AngularJS for routing
 - **ngRoute** Module.
 - **ng-view** Directive.
 - **\$routeProvider** Provider.
 - **ng-template** Directive.

Syntax for ngRoute Module in AngularJS:

```
angular.module('myApp', ['ngRoute']);
```



Sample code for Routing 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-
route.js"> </script>
  </head>
  <body ng-app="myApp" >
    <p><a href="#" > Tutorials </a></p>
    <a href="#html" > HTML </a></p>
    <a href="#css" > CSS </a></p>
    <a href="#php" > PHP </a></p>
    <div ng-view> </div>
    <script>
      var app = angular.module("myApp", ["ngRoute"]);
      app.config(function($routeProvider) {
        $routeProvider
          .when("/", {
            templateUrl: "tutorials.html"
          })
          .when("/html", {
            templateUrl: "html.html"
          })
          .when("/css", {
            templateUrl: "css.html"
          })
          .when("/php", {
            templateUrl: "php.html"
          });
      });
    </script>
  </body>
</html>
```



```
});  
</script>  
</body>  
</html>
```

tutorials.html template:

```
<h2> Wikitechy Tutorials </h2>  
<p> Welcome to Wikitechy tutorials </p>
```

html.html template:

```
<h2> HTML Tutorials </h2>  
<p> Welcome to HTML tutorials </p>
```

css.html template:

```
<h2> CSS Tutorials </h2>  
<p> Welcome to CSS tutorials </p>
```

php.html template:

```
<h2> PHP Tutorials </h2>  
<p> Welcome to PHP tutorials </p>
```



HTML:

- Viewable HTML contents in AngularJS Application.

```
<p><a href="#"> Tutorials </a></p>
<a href="#html"> HTML </a></p>
<a href="#css"> CSS </a></p>
<a href="#php"> PHP </a></p>
<div ng-view> </div>
```

Routing :

- Routing configuration of Application Module.

```
var app = angular.module("myApp", ["ngRoute"]);
app.config(function($routeProvider) {
  $routeProvider
    .when("/", {
      templateUrl: "tutorials.html"
    })
    .when("/html", {
      templateUrl: "html.html"
    })
    .when("/css", {
      templateUrl: "css.html"
    })
    .when("/php", {
      templateUrl: "php.html"
    });
});
```

Code Explanation for Routing in AngularJS:

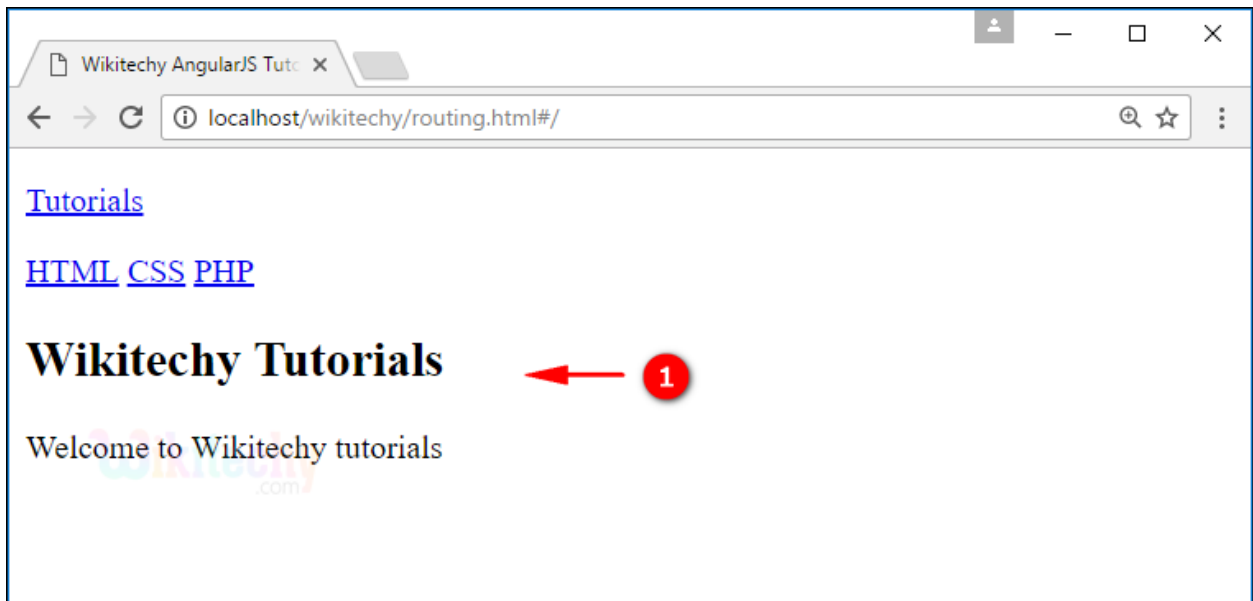
```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorials</title>
    <script src="https://ajax.googleapis.
      com/ajax/libs/angularjs/1.5.6/angular.min.js"> </script>
    <script src="//ajax.googleapis.com/ajax/libs/angularjs/1.5.
      1 → 6/angular-route.js"></script>
    </head>
    <body ng-app="myApp">

      <p><a href="#/">Tutorials</a></p>
      <a href="#html">HTML</a> ← 2
      <a href="#css">CSS</a>
      <a href="#php">PHP</a>

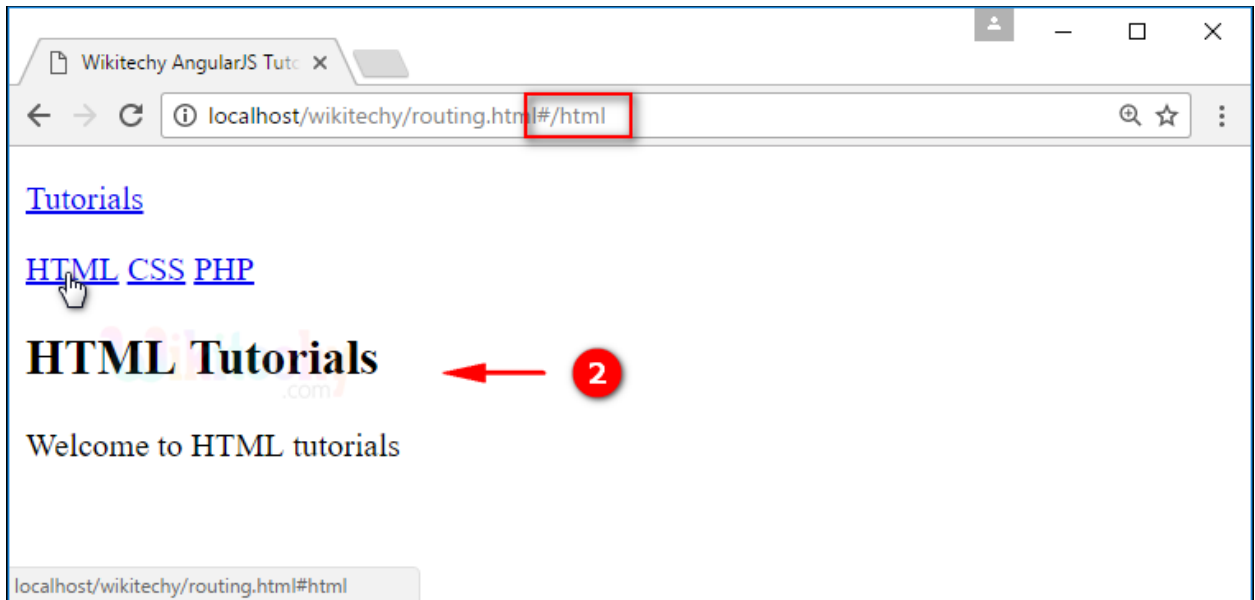
      <div ng-view></div>
      <script>
      3 → var app = angular.module("myApp", ["ngRoute"]);
      4 → app.config(function($routeProvider) {
        $routeProvider
          .when("/", {
            templateUrl : "tutorials.html"
          })
          7 → .when("/html", {
            templateUrl : "html.html" ← 6
          })
          .when("/css", {
            templateUrl : "css.html"
          })
          .when("/php", {
            templateUrl : "php.html"
          });
      });
    </script>
  </body>
</html>
```

1. To use AngularJS Routing we should include “[angular-route.js](#)” JavaScript source file from [googleapis.com](#).
2. The set of navigation links are specified in `<a>` tag for different templates with different external files.
3. The **ng-view** directory is used to show the rendered template in the Current Application.
4. The [angular.module](#) used to create an Application module for “**myApp**” module.
5. The “**ngRoute**” is used to specify the dependency of routing in the application module.
6. The **config** is used to configure the application with **\$routeProvider**.
7. The **.when** used to specify when the **templateUrl** routed to the view.
8. The set of templateUrl for **\$routeProvider** for the navigation links.

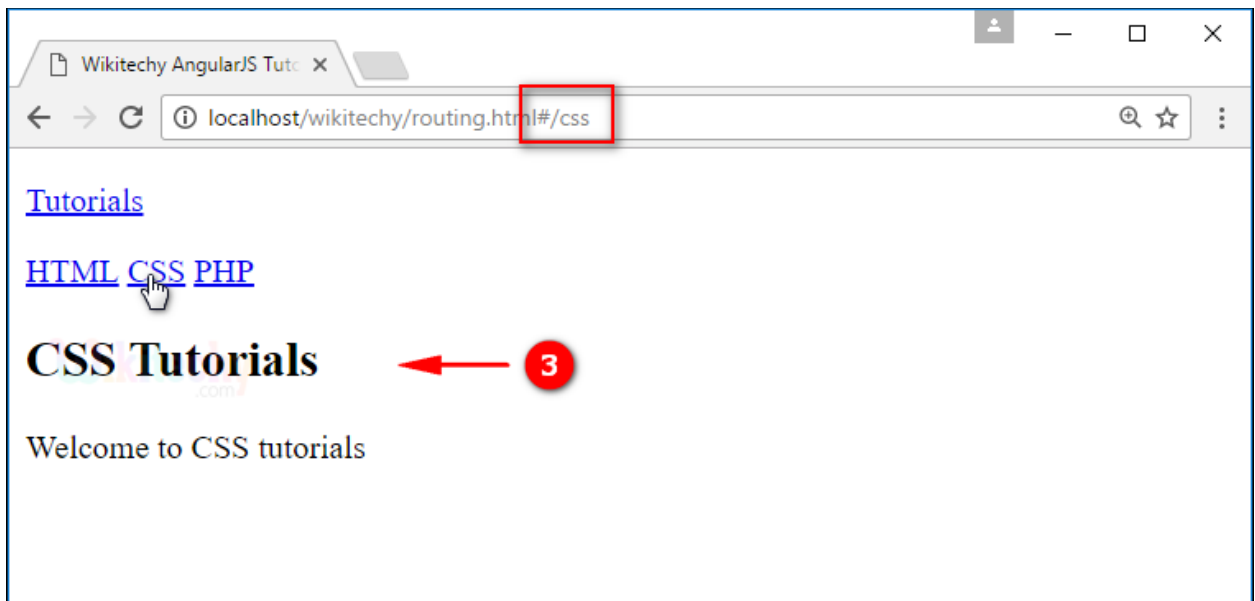
Sample Output for Routing in AngularJS:



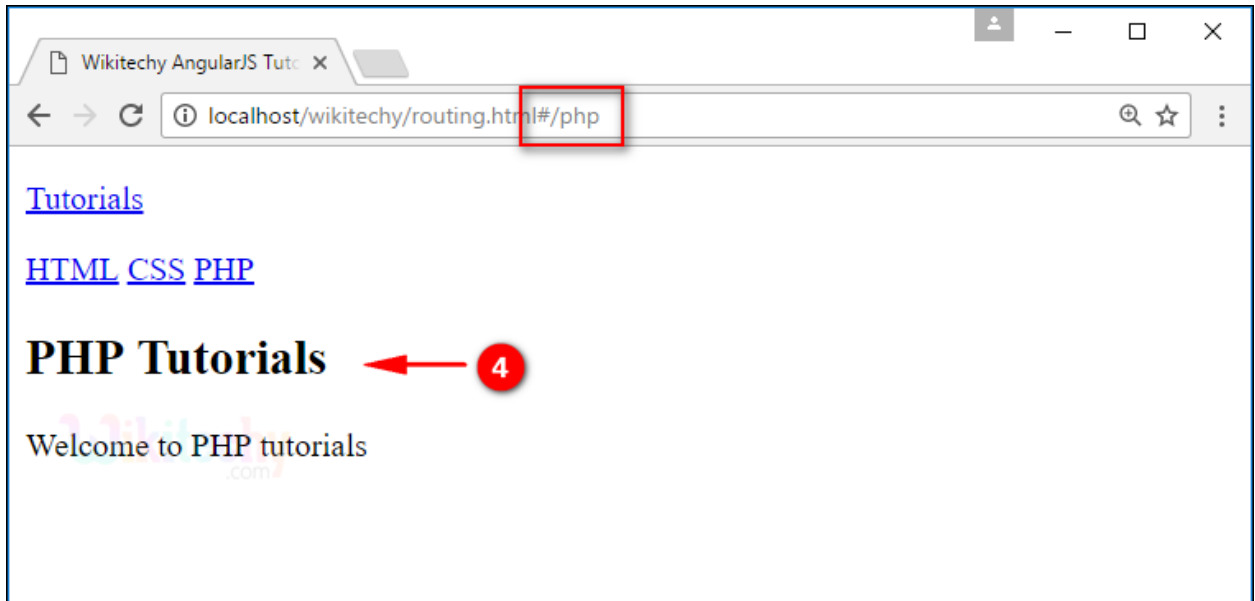
1. On page load by default **"tutorials.html"** page is routed.



2. When user click the HTML link then **"html.html"** page is routed. And the URL changed to **#/html**.



3. When user click the CSS link then **"css.html"** page is routed. And the URL changed to **#/css**.



4. When user click the PHP link then “**php.html**” page is routed. And the URL changed to **#/php**.