



Angular

## Dependency Injection (DI)

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



Router



# Router

## How to use

```
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.4/angular-route.js"></script>
```



## Configure Routes and Views

add the `ngRoute` as a dependency in the application module

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



## Configure Routes and Views

Use the `angular.module` function to create a new module and configure it with the `ngRoute` module.

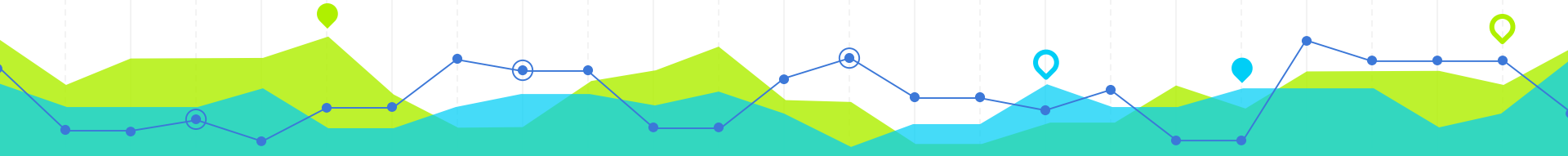
```
var app = angular.module("myApp", ["ngRoute"]);

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

## Configure Routes and Views

Applications can only have one ng-view directive

```
<div ng-app="myApp">  
  <div ng-view></div>  
</div>
```



## Configure Routes and Views

```
app.config(function($routeProvider) {  
  $routeProvider  
    .when("/", {  
      templateUrl : "main.html",  
      controller : 'mainController'  
    })  
    .when("/red", {  
      templateUrl : "red.html",  
      controller : 'redController'  
    })  
    .when("/green", {  
      templateUrl : "green.html",  
      controller : 'greenController'  
    });  
});
```



# UI Router



# UI Router

## How to use

```
npm install --save angular-ui-router
```

```
<script src="//unpkg.com/angular-ui-router/release/angular-ui-router.min.js"></script>
```



# UI Router

## Configure Routes and Views

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



# UI Router

## Configure Routes and Views

```
app.config(function ($stateProvider, $urlRouterProvider) {  
  $stateProvider  
    .state('stateName', {  
      url: 'url',  
      template: '<p>this is part of stateName</p>' //or templateUrl:  
        'someFile.html'  
    });  
});
```



# UI Router

## Configure Routes and Views

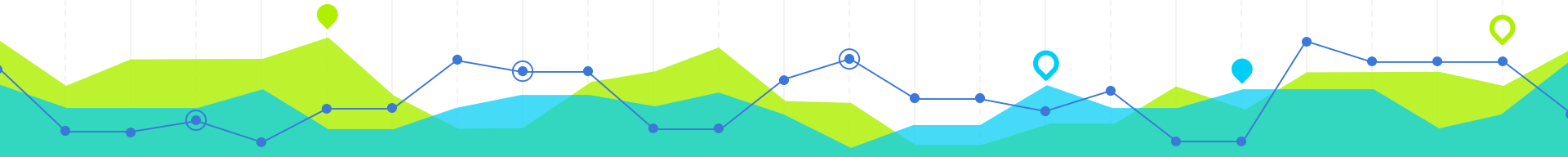
```
<div ui-view></div>
```



# UI Router

## Go state

- `$state.go(statename)`
- `ui-sref` // `<a ui-sref="statename"></a>`
- URL // use `#/[url]`



# UI Router

## Example

```
<body>
  <div ng-app="myApp">
    <a ui-sref="home">Home</a>
    <a ui-sref="about">about</a>
    <div ui-view></div>
  </div>
  <script>

    var app = angular.module("myApp", ["ui.router"]);

    app.config(function ($stateProvider, $urlRouterProvider) {
      $stateProvider
        .state('home', {
          url: '/home',
          template: '<p>this is part of home</p>'
        })
        .state('about', {
          url: '/about',
          template: '<p>this is part of about</p>'
        });
    });

  </script>
</body>
```

# UI Router

## Example

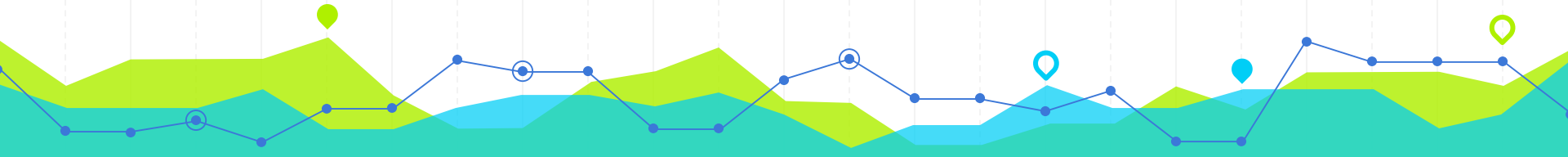
```
app.config(function ($stateProvider, $urlRouterProvider) {  
  $stateProvider  
    .state('home', {  
      url: '/home',  
      template: '<p>this is part of home</p>'  
    })  
    .state('about', {  
      url: '/about',  
      template: '<p>this is {{name}}</p>',  
      controller: function ($scope) {  
        $scope.name = "Hello Angular!!";  
      }  
    });  
});
```



# UI Router

\$state.go()

```
$state.go(to [, toParams] [, options]);
```



# UI Router Property

resolve

```
app.config(function ($stateProvider, $urlRouterProvider) {
  $stateProvider
    .state('home', {
      url: '/home',
      template: '<p>this is part of home</p>'
    })
    .state('about', {
      url: '/about',
      template: '<p>this is {{name}}</p>',
      resolve: {
        simpleObj: function () {
          return {
            value: 'Hello True Incube'
          }
        }
      },
      controller: function ($scope, simpleObj) {
        $scope.name = simpleObj.value;
      }
    });
});
```

# UI Router Property

Data

how to use \$state

```
app.config(function ($stateProvider, $urlRouterProvider) {
  $stateProvider
    .state('home', {
      url: '/home',
      template: '<p>this is part of home</p>'
    })
    .state('about', {
      url: '/about',
      template: '<p>this is {{name}} {{name2}}</p>',
      data: {
        customData1: "UI ROUNTER",
        customData2: "Hello World"
      },
      controller: function ($scope, $state) {
        $scope.name = $state.current.data.customData1;
        $scope.name2 = $state.current.data.customData2;
      }
    });
});
```

# UI Router

## URL Parameter

- \$stateParams

- URL : 'url/:id'

'url/12345!!' , 'url/bob'

- URL : 'url/{id}'

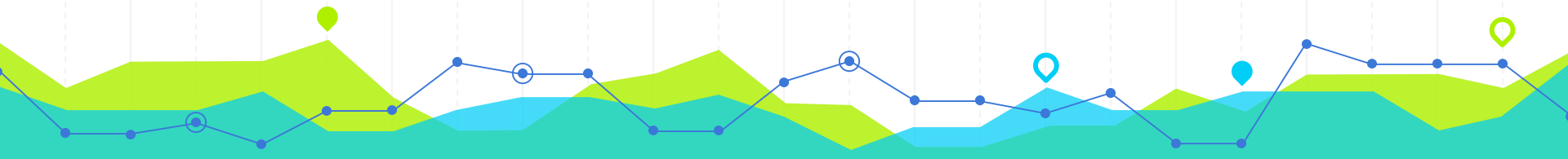
url: '/url/{id:[0-9a-fA-F]{6}}',

- URL : 'url?query'

url: "/contacts?myParam" // match "/contacts?myParam=value"

url: "/contacts?myParam1&myParam2" // match

"/contacts?myParam1=value1&myParam2=value2"



## UI Route

### Nested Routing

```
app.config(function($stateProvider, $urlRouterProvider) {  
  $stateProvider  
    .state('root', {                                /root  
      url: '/root',  
      ...  
    })  
    .state('root.branch', {                          /root/1  
      url: '/:branchId',  
      ...  
    })  
    .state('root.branch.element', {                  /root/1/element/2  
      url: '/element/{elementId}',  
      ...  
    });  
});
```

# UI Route

## Multiple View in Single Page

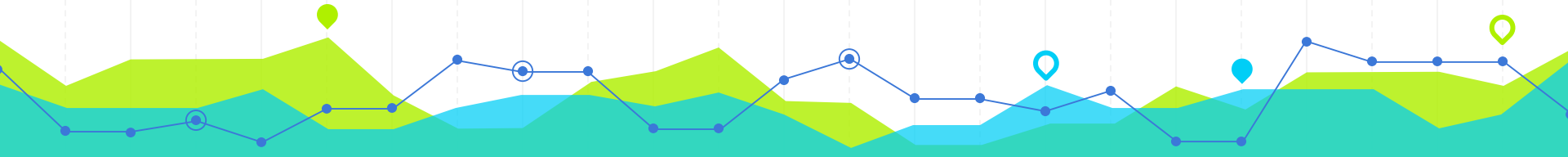
views property

```
app.config(function($stateProvider, $urlRouterProvider) {
  $stateProvider
    .state('stateName', {
      views: {
        'view1': {
          template: 'someHtml',
          controller: function($scope) { ... }
        },
        'view2': {
          templateUrl: 'someFile.html'
        },
        'view3': {
          template: 'someHtml',
          controller: function($scope) { ... }
        }
      }
    });
});
```

# UI Route

## Multiple View in Single Page

```
<!-- Multiple Views -->  
<div ui-view="view1"></div>  
<div ui-view="view2"></div>  
<div ui-view="view3"></div>  
<div ui-view></div>
```



## UI Route

### Abstract State

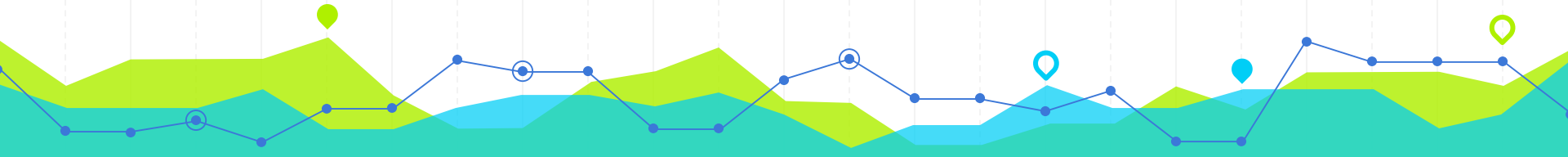
```
$stateProvider
  .state('multiple', {
    abstract: true,
    templateUrl: '/template.html'
  })
  .state('multiple.list', {
    url: '/list',
    views: {
      'header': {
        template: '{{headerText}}',
        controller: function($scope) {
          $scope.headerText = "Header's List Text";
        }
      },
      'content': {
        template: '{{contentText}}',
        controller: function($scope) {
          $scope.contentText = "Content's List Text";
        }
      }
    }
  })
})
```



# UI Route

URL Provider : \$urlRouterProvider

- when()
- otherwise()
- rule()



# UI Route

## URL Provider

○ when()

```
app.config(function($urlRouterProvider) {  
  $urlRouterProvider.when(what, handler);  
});
```



# UI Route

## URL Provider

- otherwise()

```
.config(function($urlRouterProvider){  
  // otherwise use for invalid route  
  $urlRouterProvider.otherwise('/index');  
  
  // Advance otherwise  
  $urlRouterProvider.otherwise(function($injector, $location){  
    ... some advanced code...  
  });  
});
```



# UI Route

## URL Provider

○ rule()

```
.config(function($urlRouterProvider){  
    $urlRouterProvider.rule(function($injector, $location) {  
        return '/index';  
    });  
});
```



# Workshop

## Site map

- Home
- About us
- Product
- Contact us
- Login

Doc ui-route : <https://github.com/angular-ui/ui-router/wiki>



## Directive

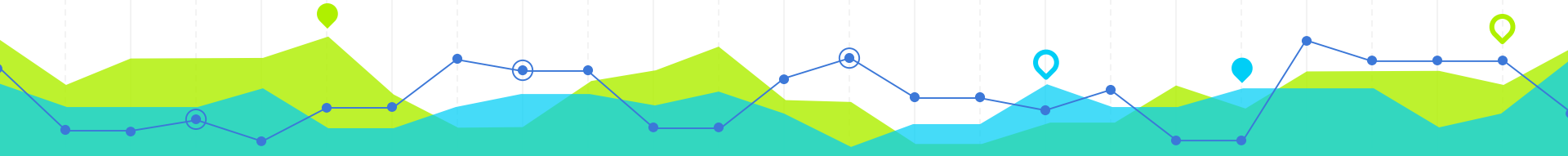
- Element Directive
- Attribute Directive



# Directive

- Element Directive

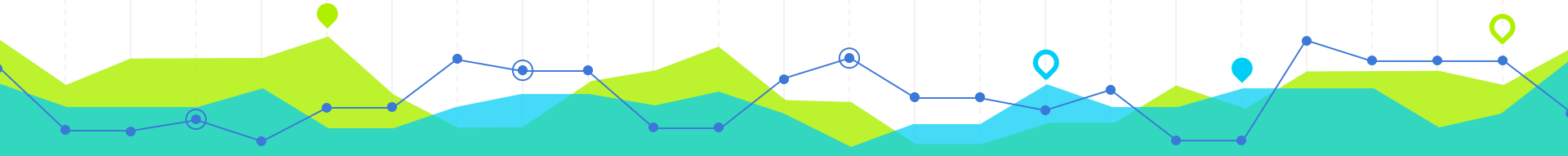
```
app.directive('someElement', function() {  
  return {  
    restrict: 'E'  
  };  
});
```



# Directive

- Element Directive

```
<some-element></some-element>
```

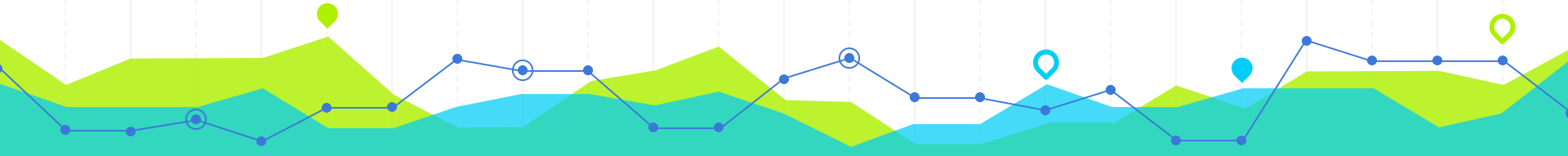




# Directive

- Attribute Directive

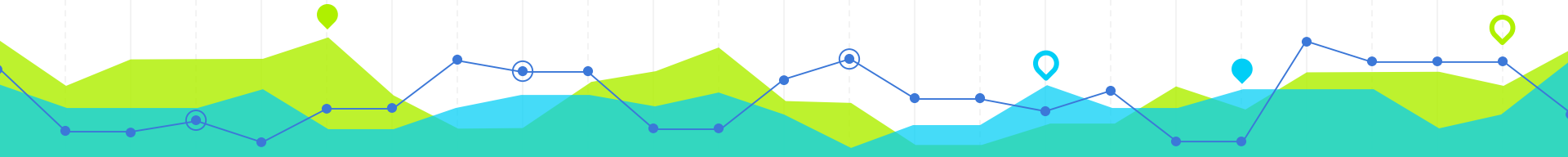
```
app.directive('someAttr', function() {  
  return {  
    restrict: 'A'  
  };  
});
```



# Directive

- Attribute Directive

```
<div some-attr></div>
```



## Directive

- Element Directive
- Attribute Directive

