

# APPMOB - Mapbox

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Haute Ecole d'Ingénierie et de Gestion  
du Canton de Vaud

# Mapbox: Customizable Maps



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# Can I use Mapbox with AngularJS?

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<http://imgtfy.com/?q=mapbox+angularjs>

# Angular Leaflet Directive

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A directive has already been made for you:

<https://github.com/tombatossals/angular-leaflet-directive/>

<http://tombatossals.github.io/angular-leaflet-directive/>

# Using Bower

```
$> bower search angular-leaflet-directive
angular-leaflet-directive git://github.com/tombatossals/angular-leaflet-directive
angular-leaflet git://github.com/tombatossals/angular-leaflet-directive.git
ws-angular-leaflet-directive git://github.com/ws-anashkin/angular-leaflet-directive.git
angular-leaflet-directive-ext git://github.com/Asymmetrik/angular-leaflet-directive-ext.git
angular-leaflet-directive-ws git://github.com/ws-anashkin/angular-leaflet-directive.git
angular-leaflet-directive-temp git://github.com/TheCodeDestroyer/angular-leaflet-directive.git
angular-leaflet-directive-websailors git://github.com/ws-anashkin/angular-leaflet-directive.git
wavel-leaflet-directive git://github.com/Arnooo/angular-leaflet-directive.git
```

```
$> bower install --save angular-leaflet-directive
```

```
angular-leaflet-directive#0.7.11 www/lib/angular-leaflet-directive
├─ angular#1.3.6
├─ font-awesome#4.2.0
└─ leaflet#0.7.3
```

```
font-awesome#4.2.0 www/lib/font-awesome
```

```
leaflet#0.7.3 www/lib/leaflet
```

# Include the Javascript files

Add the required files to index.html:

```
<html>
<head>
  ...

  <!-- add the stylesheets here -->
  <link href="lib/leaflet/dist/leaflet.css" rel="stylesheet">

  ...

  <!-- ionic/angularjs js -->
  <script src="lib/ionic/js/ionic.bundle.js"></script>
  <script src="lib/a0-angular-storage/dist/angular-storage.js"></script>

  <!-- add the javascripts here (AFTER the ionic library) -->
  <script src="lib/leaflet/dist/leaflet-src.js"></script>
  <script src="lib/angular-leaflet-directive/dist/angular-leaflet-directive.js"></script>
</head>
<body>
  ...
</body>
</html>
```

# Mapbox Configuration

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You will need:

- a map ID
- a public access token

# Mapbox Configuration

You should add them to your configuration files:

In:

- config/development.json
- config/production.json

```
{  
  "apiUrl": "http://api.example.com",  
  "mapboxMapId": "...",  
  "mapboxAccessToken": "...",  
}
```

In constants.js (root directory of the app):

```
angular.module("citizen-engagement.constants", [])  
  .constant("apiUrl", "@apiUrl@")  
  .constant("mapboxMapId", "@mapboxMapId@")  
  .constant("mapboxAccessToken", "@mapboxAccessToken@")  
  ;
```

In gulpfile.js:

```
.pipe(replace(/@apiUrl@/, config.apiUrl))  
.pipe(replace(/@mapboxMapId@/, config.mapboxMapId))  
.pipe(replace(/@mapboxAccessToken@/, config.mapboxAccessToken))
```

Don't forget to re-run **gulp config-development** or **gulp config-production** to apply the new configuration.



# Add the AngularJS module

Add the new dependency to your application module:

```
angular.module("citizen-engagement", ["...", "leaflet-directive"])
```

Add the required data to your controller:

```
myApp.controller("MapController", function($scope, mapboxMapId, mapboxAccessToken) {  
  
  var mapboxTileLayer = "http://api.tiles.mapbox.com/v4/" + mapboxMapId;  
  mapboxTileLayer = mapboxTileLayer + "{z}/{x}/{y}.png?access_token=" + mapboxAccessToken;  
  
  $scope.mapDefaults = {  
    tileLayer: mapboxTileLayer  
  };  
  
  $scope.mapCenter = {  
    lat: 51.48,  
    lng: 0,  
    zoom: 14  
  };  
  
  $scope.mapMarkers = [];  
});
```

Add the directive to your template:

```
<ion-content scroll="false">  
  <leaflet defaults="mapDefaults" center="mapCenter" markers="mapMarkers" height="100%" data-tap-disabled="true"></leaflet>  
</ion-content>
```

# Mapbox: Adding a Marker

Simply add it to the **mapMarkers** \$scope variable.  
The directive will automatically be updated.

```
myApp.controller("MapController", function(IssueService, mapboxMapId, mapboxAccessToken) {  
    // ...  
    $scope.mapMarkers = [];  
    var issue = IssueService.getIssue();  
    $scope.mapMarkers.push({  
        lat: issue.lat,  
        lng: issue.lng,  
        message: "<p>{{ issue.description }}</p><img src='{{ issue.imageUrl }}' width='200px' />",  
        getMessageScope: function() {  
            var scope = $scope.$new();  
            scope.issue = issue;  
            return scope;  
        }  
    });  
});
```

# Beware of The Bug

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If you copy-paste examples from the angular-leaflet-directive project, don't forget to add the **data-tap-disabled="true"** attribute.

```
<leaflet defaults="mapDefaults" center="mapCenter" markers="mapMarkers" data-tap-disabled="true"></leaflet>
```

<http://ionicframework.com/docs/api/page/tap/>

<http://forum.ionicframework.com/t/click-on-a-marker-of-leafletmap-not-working/4378/>