



FREE eBook

LEARNING leaflet

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#leaflet

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About

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Chapter 1: Getting started with leaflet

Remarks



Leaflet is an open-source JavaScript library for creating interactive maps.

Versions

Version	Release Date
1.0.3	2017-01-23
1.0.2	2016-11-21
1.0.1	2016-09-30
1.0	2016-09-27
0.7	2013-11-18
0.6	2013-06-26
0.5	2013-01-17
0.4	2012-07-30
0.3	2012-02-13
0.2	2011-06-17
0.1	2011-05-16

Examples

Implementing Leaflet.js with HTML and JavaScript

To use Leaflet, load its stylesheet and JavaScript file to your page:

```
<link rel="stylesheet" href="/css/leaflet.css" />  
<script src="/js/leaflet.js"></script>
```

These resources can be downloaded from a variety of locations such as [Leaflet's homepage](#) or the [Leaflet Github repository](#), or you can directly use CDN as,

```
<link rel="stylesheet" href="https://unpkg.com/leaflet@1.0.3/dist/leaflet.css" />
<script src="https://unpkg.com/leaflet@1.0.3/dist/leaflet.js" ></script>
```

You need a container for your map. It is common for developers to use a `div` with an id of "map" for this. Make sure to give your map `div` a height as well or the map might not show up.

```
<div id="map" style="height: 200px;"></div>
```

Initializing the map is done by creating a map object using the `Leaflet.map(mapContainerId)` method. In the below example, a latitude and longitude are set as a default with a default zoom level of 13.

```
var map = L.map('map').setView([42.35, -71.08], 13);
```

This creates our empty map, we should now provide a tile layer to act as our base map. A tilelayer is a service that provides map images in tiles, small images that are accessed by x, y and z parameters in a particular order (see below).

A tile layer URL might look like this, where `{s}`, `{z}`, `{x}` and `{y}` are placeholders that Leaflet will automatically change during operation:

```
"http://{s}.domain.com/foo/{z}/{x}/{y}.png"
```

We can now add our tilelayer, along with attribution info and maximum possible zoom level, and add it to the map:

```
L.tileLayer('http://tiles.mapc.org/basemap/{z}/{x}/{y}.png',
{
  attribution: 'Tiles by <a href="http://mapc.org">MAPC</a>, Data by <a href="http://mass.gov/mgis">MassGIS</a>',
  maxZoom: 17,
  minZoom: 5
}).addTo(map);
```

Note: Map initialization and loading the tile layer need to occur after the inclusion of `leaflet.js` and the map container `div` element.

Leaflet Quick Start

```
<!DOCTYPE html>
<html>

  <head>
    <title>My Leaflet Map</title>
    <link rel="stylesheet" href="//unpkg.com/leaflet@1.0.2/dist/leaflet.css" />
    <style type="text/css">
      #map {
```

```
        height: 500px;
    }
</style>
</head>

<body>
  <div id="map"></div>

  <script src="//unpkg.com/leaflet@1.0.2/dist/leaflet.js"></script>
  <script>
    var map = L.map('map').setView([51.505, -0.09], 13);

    L.tileLayer('http://{s}.tile.osm.org/{z}/{x}/{y}.png', {
      attribution: '&copy; <a href="http://osm.org/copyright">OpenStreetMap</a>
contributors'
    }).addTo(map);

    L.marker([51.5, -0.09]).addTo(map)
      .bindPopup('A pretty CSS3 popup.<br> Easily customizable.')
      .openPopup();
  </script>
</body>

</html>
```

Read Getting started with leaflet online: <https://riptutorial.com/leaflet/topic/2000/getting-started-with-leaflet>

Credits

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