

# MAPS - OPEN LAYERS

## CONCEPT

Maps offers access to visual representation of the location on a map. This can be used in the platform as well as on mobile application.

Documentation official: [Link](#)

Installation:

<https://openlayers.org/download/>

1. Create a express server with the following configuration:

`npm init`

`npm i express nodemon`

`package.json`

```
{
  "name": "openlayers",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "start": "nodemon server.js"
  },
  "author": "",
  "license": "ISC",
  "dependencies": {
    "express": "^4.18.1",
    "nodemon": "^2.0.20"
  }
}
```

`touch server.js`

```
//server.js
const express = require('express');
const app = express();
const path = require('path');
const router = express.Router();

app.use(express.static('public'));
router.get('/', function (req, res) {
  res.sendFile(path.join(__dirname + '/index.html'));
});

app.use('/', router);
app.listen(3001);

console.log('Running at Port 3001');
```

2. Create a HTML file

3. Inside project's folder

a. create a public folder

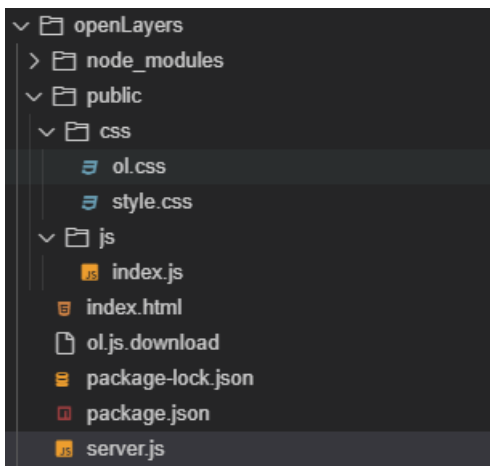
b. inside public folder create a js folder with the file: index.js

c. inside public folder create a css folder with the file: style.css

4. The Logic will be in index.js and the style in style.css

Documentation: <https://openlayers.org/en/latest/apidoc/>

Final folder:



Orange: Assign

Green: Available

Red: not available

yellow: not response

purple: selected vendor

grey: not match

white: deactivated

Blue point: open

orange: vendor asingn

Status:

vAvailable, vNoMatch, vNoResponse, vNotAvailable, vInactive

## USE OF THE MAP

you have to import the map inside an iframe, you can custom the iframe to get a circle or square map, example:

```
<html>

<head></head>

<body style="margin: 0px;height: 550px;width: 550px;
"><iframe id="iframe" src="https://maps.scheduleinterpreter.com/" title="siMaps"
  style="
    width: 550px;
    height: 550px;
    border-radius: 100%;
    border: 1px solid;
    position: relative;
    top: 50%;
    left: 50%;
  "></iframe> </body>

</html>
```

Live demo (<https://developer.scheduleinterpreter.com/app/map-test>)

Functions:

updateRadius(:meters), example updateRadius(:10018857)

Create a map:

Options

```
si_maps = {
  target: {
    id: "map-canvas",
    height: "110%",
    width: "100%",
    opacity: {
      value: "0.65",
      display: true,
    },
  },
  map_url_source: "https://stamen-tiles.a.ssl.fastly.net/toner-lite/{z}/{x}/{y}.png",
},
  popup: {
    display: true,
    popup_container: "si_map-popup",
    popup_content: "si_map-popup-content",
  },
  events: [],
  center_coords: [],
  zoom: undefined,
  zoom_controls: {
    center: true,
    in_out: true,
  },
}
```

si\_maps is a global variable you can check in the browser console window.si\_maps or si\_maps

Methods:

init(): will create a map with the options seted,

Reload(): will rerun the map creation

Example

```
si_maps.target = {
  "id": "apptVendorRoute",
  "height": "70vh",
  "width": "90vw",
  "opacity": {
    "value": "0.65",
    "display": true
  },
  "map_url_source": "https://stamen-tiles.a.ssl.fastly.net/toner-lite/{z}/{x}/{y}.png"
}
si_maps.events = [
  {
    "eventId": 0,
    "isRouteDataShow": 1,
    "isSelected": 0,
    "isP2PDataShow": 1,
    "street": "99 Walnut St,",
    "city": "Manchester",
    "state": "NH",
    "zip": "3101",
    "label": ["Jennifer Martinez,"],
    "lat": 42.9952709,
    "lon": -71.4564256,
    "startTime": "",
    "markerClass": "homeStyle"
  },
  {
    "eventId": 174213,
    "isRouteDataShow": 1,
    "isSelected": 0,
    "isP2PDataShow": 1,
    "street": "185 Queen City Avenue",
    "city": "Manchester",
    "state": "NH",
    "zip": "3101",
    "label": ["Jennifer Martinez,", "ERE - One Day Surgery & Endoscopy Center"],
    "lat": 42.9743441,
    "lon": -71.4684319,
    "startTime": "7:15 am",
    "markerClass": "pointStyle"
  },
  {
    "eventId": 174214,
    "isRouteDataShow": 1,
    "isSelected": 0,
    "isP2PDataShow": 1,
    "street": "185 Queen City Avenue",
    "city": "Manchester",
    "state": "NH",
    "zip": "3101",
    "label": ["Jennifer Martinez,", "ERE - One Day Surgery & Endoscopy Center"],
    "lat": 42.9743441,
    "lon": -71.4684319,
    "startTime": "7:15 am",
    "markerClass": "pointStyle"
  },
]
```

```

{
  "eventId": 169235,
  "isRouteDataShow": 1,
  "isSelected": 1,
  "isP2PDataShow": 1,
  "street": "100 Hitchcock Way",
  "city": "Manchester",
  "state": "NH",
  "zip": "3104",
  "label": ["Heart & Vascular Center"],
  "lat": 43.010453,
  "lon": -71.4235355,
  "startTime": "10:45 am",
  "markerClass": "selectedStyle"
},
{
  "eventId": 173059,
  "isRouteDataShow": 1,
  "isSelected": 0,
  "isP2PDataShow": 1,
  "street": "2300 Southwood Drive",
  "city": "Nashua",
  "state": "NH",
  "zip": "3060",
  "label": ["Internal Medicine"],
  "lat": 42.7852999,
  "lon": -71.4985233,
  "startTime": "12:50 pm",
  "markerClass": "pointStyle"
},
{
  "eventId": 174501,
  "isRouteDataShow": 1,
  "isSelected": 0,
  "isP2PDataShow": 1,
  "street": "17 Prospect Street Suite: 102",
  "city": "Nashua",
  "state": "NH",
  "zip": "3060",
  "label": ["Rehab - 17 Prospect Street"],
  "lat": 42.7563173,
  "lon": -71.4582287,
  "startTime": "3:15 pm",
  "markerClass": "pointStyle"
},
{
  "eventId": 174500,
  "isRouteDataShow": 1,
  "isSelected": 0,
  "isP2PDataShow": 1,
  "street": "17 Prospect Street Suite: 102",
  "city": "Nashua",
  "state": "NH",
  "zip": "3060",
  "label": ["Rehab - 17 Prospect Street"],
  "lat": 42.7563173,
  "lon": -71.4582287,
  "startTime": "5:45 pm",
  "markerClass": "pointStyle"
},
{
  "eventId": 174219,
  "isRouteDataShow": 1,
  "isSelected": 0,
  "isP2PDataShow": 1,
  "street": "185 Queen City Avenue",
  "city": "Manchester",
  "state": "NH",
  "zip": "3101",

```

```
    "label": ["Jennifer Martinez,", "ERE - One Day Surgery & Endoscopy Center"],  
    "lat": 42.9743441,  
    "lon": -71.4684319,  
    "startTime": "7:15 am",  
    "markerClass": "pointStyle"  
  },  
]  
  
si_maps.init()
```

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