



# *Web GIS Using Open-Source Tools*

# *Why Open-Source Tools ?*

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- انتشار استخدام المكتبات مفتوحة المصدر
- توفر عدد كبير من المستخدمين لها
- عدد من الوظائف تطلب معرفة المكتبات مفتوحة المصدر
- شركات تعمل فقط بالأدوات مفتوحة المصدر
- انخفاض مصادر شرح مكتبة `leaflet.js`



<https://earthexplorer.usgs.gov/> •

<https://hgis.uw.edu/virus/> •

<https://www.leboncoin.fr/> •

[https://about-france.com/tourism/tourist-  
map-france.htm](https://about-france.com/tourism/tourist-map-france.htm) •

[https://www.parispass.com/paris-tourist-  
map/](https://www.parispass.com/paris-tourist-map/) •

[https://www.city-walks.info/London-  
en/Map.html](https://www.city-walks.info/London-en/Map.html) •



# *Part One : Intro To Web GIS*

HTML

CSS

SVG

JS

Bootstrap

Leaflet.js

Json file

Geojson



# *Part Two : Intro To Web GIS*

ArcGIS Online



Instant Apps

Story Maps

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# Modern, Powerful & Open source

With focused visual tools and preprocessor support, Brackets is a modern text editor that makes it easy to design in the browser. It's crafted from the ground up for web designers and front-end developers.

[Download](#)

Installer Built and Signed by [phoenix.core.ai](#)

[Other Downloads](#)



# *HTML*

```
<!DOCTYPE html>
<html>

  <head>
    <title>Page Title</title>
  </head>
  <body>

    <h1>Heading</h1>
    <p>paragraph</p>
    <div></div>

  </body>

</html>
```



# HTML

```
<!DOCTYPE html>
<html>    </html>
<head>    </head>
<title>    </title>

<body> </body>
<h1>    </h1>
<p></p>
<a href="https://www.Link.com"></a>

<div>Hello World</div>

<b> </b>
<i> </i>
<em> </em>
<mark> </mark>
<small> </small>
<del> </del>
<ins> </ins>
```

# HTML

```
<table>
  <tr>
    <th>First Column</th>
    <th>Second Column</th>
    <th>Third Column</th>
  </tr>
  <tr>
    <td>Egypt</td>
    <td>Cairo</td>
    <td>10</td>
  </tr>
  <tr>
    <td>Amman</td>
    <td>Muscat </td>
    <td>12</td>
  </tr>
</table>
```

First Column	Second Column	Third Column
Egypt	Cairo	10
Amman	Muscat	۱۲

# CSS

```
<!DOCTYPE html>
<html>

  <head>
    <title>Page Title</title>

    <link rel="stylesheet" href="mystyle.css"> ----→ 1

    <style>
      write CSS Code here                      ----→ 2
    </style>
  </head>
  <body>

    <h1 style="color:blue;">Heading</h1>      ----→ 3
  </body>

</html>
```





```
h1 {  
    color: blue;  
}  
  
.Mypar {  
border: 1px solid black;  
background-color: lightblue;  
}  
  
#myID {  
border: 1px solid black;  
background-color: lightblue;  
}
```

```
<head>  
    <link rel="stylesheet" href="mystyle.css">  
</head>  
<body>  
  
    <h1>Heading</h1>  
    <p class="mypar"></p>  
    <p id="myID"></p>  
</body>
```



```
<head>
  <style>
    h1 { color: blue; }

    .Mypar {
      border: 1px solid black;
      background-color: lightblue;
    }

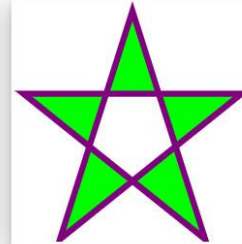
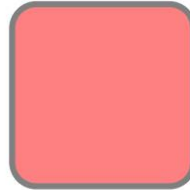
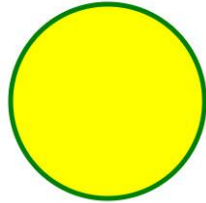
    #myID {
      border: 1px solid black;
      background-color: lightblue;
    }
  </style>
</head>

<body>
  <h1>Heading</h1>
  <p class="mypar"></p>
  <p id="myID"></p>
</body>
```

# SVG

## SVG

The [HTML <svg> element](#) allows vector based graphics in HTML:







# *JS*

JavaScript Variables

JavaScript Operators

JavaScript Functions

JavaScript Events

JavaScript Objects

JavaScript Arrays

JavaScript IF Condition

JavaScript Switch Statement

JavaScript For Loop



# *Bootstrap*



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## Build fast, responsive sites with Bootstrap

Quickly design and customize responsive mobile-first sites with Bootstrap, the world's most popular front-end open source toolkit, featuring Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful JavaScript plugins.

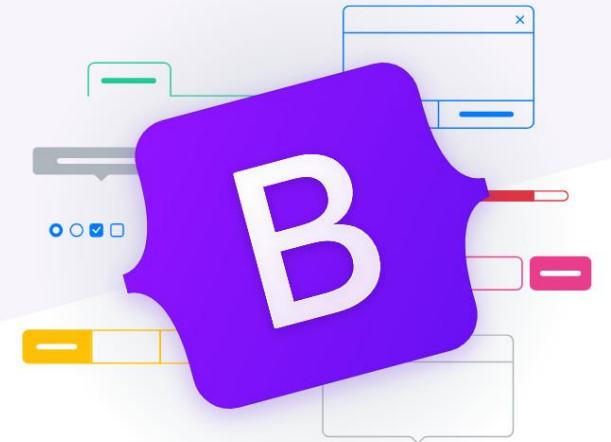
[Get started](#)

[Download](#)

Currently **v5.1.0** · [v4.6.x docs](#) · [All releases](#)



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# Leaflet.js



an open-source JavaScript library  
for mobile-friendly interactive maps

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Sep 4, 2020 — [Leaflet 1.7.1](#) has been released!

Leaflet is the leading open-source JavaScript library for mobile-friendly interactive maps. Weighing just about 39 KB of JS, it has all the mapping [features](#) most developers ever need.

Leaflet is designed with *simplicity*, *performance* and *usability* in mind. It works efficiently across all major desktop and mobile platforms, can be extended with lots of [plugins](#), has a beautiful, easy to use and [well-documented API](#) and a simple, readable [source code](#) that is a joy to [contribute](#) to.





# Geojson File

## GEOJSON

GeoJSON is a format for encoding a variety of geographic data structures.

```
{
  "type": "Feature",
  "geometry": {
    "type": "Point",
    "coordinates": [125.6, 10.1]
  },
  "properties": {
    "name": "Dinagat Islands"
  }
}
```

GeoJSON supports the following geometry types: `Point`, `LineString`, `Polygon`, `MultiPoint`, `MultiLineString`, and `MultiPolygon`. Geometric objects with additional properties are `Feature` objects. Sets of features are contained by `FeatureCollection` objects.

### The GeoJSON Specification (RFC 7946)

In 2015, the Internet Engineering Task Force (IETF), in conjunction with the original specification authors, formed a [GeoJSON WG](#) to standardize GeoJSON. [RFC 7946](#) was published in August 2016 and is the new standard specification of the GeoJSON format, replacing the 2008 GeoJSON specification.

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# ArcGIS StoryMaps

Mastering new ArcGIS StoryMaps & Classic Story Maps

Highest rated 4.8 ★★★★★ (11 ratings) 64 students

Created by [Ahmed Abdelwahed](#)

Last updated 11/2022 English English [Auto]

## What you'll learn

- ✓ Create ArcGIS StoryMap
- ✓ Add different types of maps to StoryMap
- ✓ Different between new ArcGIS StoryMaps & Classic Story Maps
- ✓ Publish story maps

## This course includes:

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- 9 downloadable resources
- Full lifetime access
- Access on mobile and TV
- Certificate of completion



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