# **Difference between Leaflet and Open layers**

## **Leaflet:**

It is basically an open source JavaScript library utilized to create interactive maps or web mapping applications in general. It supports both mobile and desktop applications.

## **Benefits of Leaflet:**

* It is designed with Simplicity, performance and usability.
* Leaflet is used mostly by GIS developers as it is known for its accuracy in determining location.
* It contains about 38KB of JavaScript codes.
* It contains scroll wheel zoom
* Tile layers
* As Leaflet is “Light weight” so it is preferred by most developers
* Easy API
* It integrates the tool cesium
* It can Load features from GeoJSON files and External databases.
* It is very simple for Vector Layer mapping
* The level of control over Leaflet is unparalleled, with an ever-growing collection of plugins and constantly updated, developer-driven API. The ability to design every aspect of your map implementation without fear of licensing or unexpected data changes makes Leaflet the clear development choice.

## **Open-Layers:**

It is an open source JavaScript Library for displaying or creating interactive mapping on a web browser as slippy maps (Tiled Web Map which is simply maps generated by combining various layers). It caters both web desktop and mobile application.

## **Benefits of Open-Layer:**

* It is Free
* It is easy to utilize, however it is not simple to understand
* Cutting Edge, Fast & Mobile Ready
* Tiled Layers
* It can be integrated to any open or closed source application
* It supports modern mobile and touch devices
* Easy to customize and extend
* Open-Layers supports GeoJSON, GeoRSS, KML, GML, and map data from any source using OGC-standards as WMS or WFS.

# **Basic Differences**

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| **LeafLet** | **OpenLayers** |
| Simple to understand and apply for a beginner. Basically it is famous for its simplicity | Harder to understand and apply for a beginner (JavaScript coding). It is famous for its functionality and flexibility |
| Its overall size is 64K | Its overall size is 700K |
| Development of an application using Leaflet is simple and easy, for a case where you have little time. | Development of an application using OpenLayers is Simple for those that have experience in Java Scripting and who require more functionality in their projects |
| The core functionally supports only the GeoJSON format. Nevertheless, support for other formats, like CSV, WKT, TopoJSON, GPX, provided by plugins. | OpenLayers supports GeoJSON, GeoRSS, KML, GML, and map data from any source using OGC-standards as WMS or WFS. |
| Less functionality provided in comparison to Open Layers | More Functionality provided in comparison to Leaflet |