



# Leaflet

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Leaflet 

# Elevator Pitch

*“Modern open-source Javascript library for mobile friendly interactive maps”*

Designed with *simplicity*, *performance*, and *usability* in mind.

Efficient across all major mobile/desktop platforms. Many plugins, solid API, readable open source code...



# Users?

- Flickr
- foursquare
- Pinterest
- craigslist
- Data.gov
- IGN
- Wikimedia
- OSM
- Meetup
- WSJ
- Mapbox
- CartoDB
- GIS Cloud



craigslist 

*Pinterest*



**FOURSQUARE**

*Leaflet* 

**Why Leaflet as opposed to...**

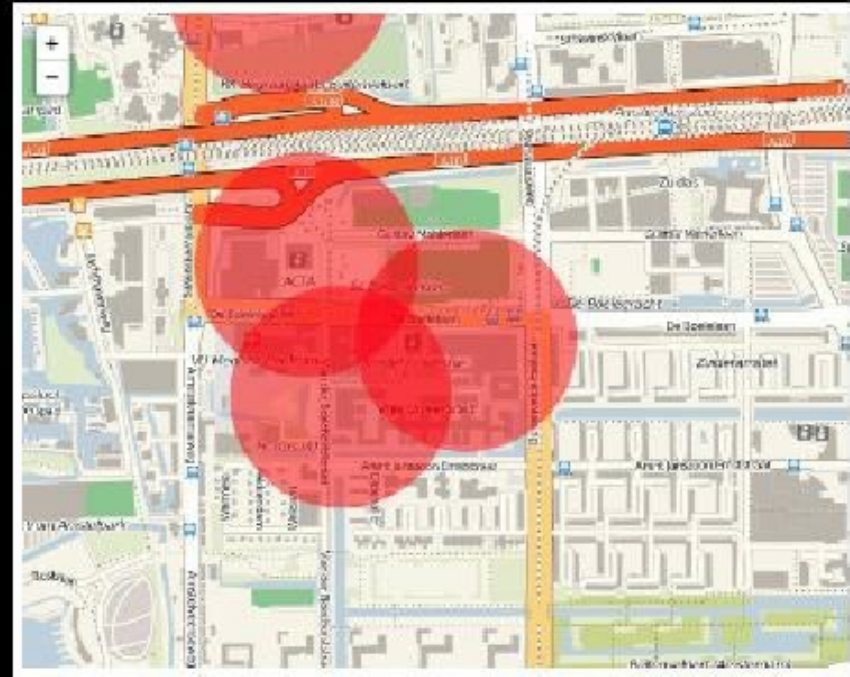
**OpenLayers**

**Google Maps API**

**Bing Maps API**

# Features and Functionality

- Layering
- Some object types:
  - Raster types
  - Vector types
  - Grouped types
  - Controls
- MultiPlatform
- GIS
- interactive
- Anything not natively supported typically has plugin options

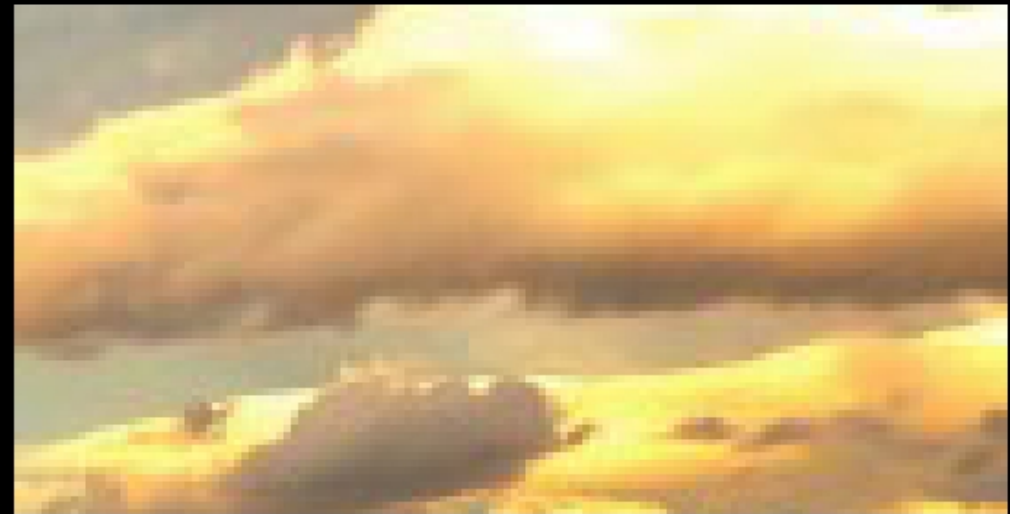




# Basic Example



(shamelessly adapted from the front page  
of <http://leafletjs.com/>)



<https://gist.github.com/alne4294/507bd7f8bbd3642ce159>

Offline version

Getting more advanced....

mapping options: <http://leaflet-extras.github.io/leaflet-providers/preview/>

full example: <http://nyctaxi.herokuapp.com/>

# Demo

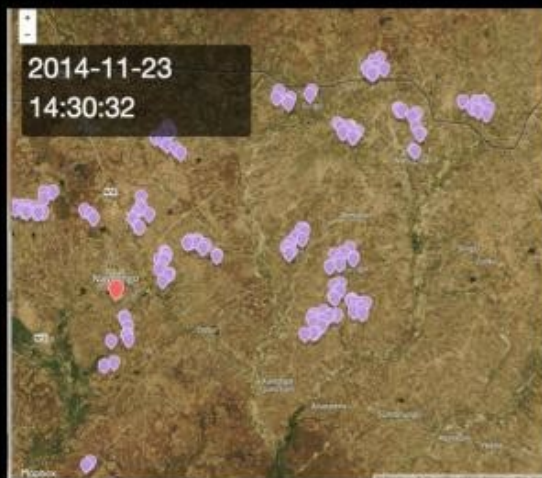
(Combined personal code with <https://github.com/notthatbreezy/leaflet-tutorial>)





<https://gist.github.com/alne4294/c7461473a78ad0635e3a>

*Offline version*



Mapbox



Bing



Google Maps



# Cool plugins/extensions to use with Leaflet

## awesome-markers

- <https://github.com/lvoogdt/Leaflet.awesome-markers>

## Bing and Google plugins

- <https://github.com/shramov/leaflet-plugins>

# Resources

- Leaflet documentation - <http://leafletjs.com/reference.html>
- Leaflet package - <https://github.com/Leaflet/Leaflet>
- Leaflet.js Essentials - <http://www.amazon.com/Leaflet-js-Essentials-Paul-Crickard-III/dp/1783554819>
- Leaflet Tips and Tricks (free book in progress) - <https://leanpub.com/leaflet-tips-and-tricks>
- Taxi Tracker Tutorial - <http://chriswhong.com/data-visualization/taxitechblog1/>



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### OpenLayers:

- Leaflet is smaller than openLayers. 7,000 lines vs 230,000. smaller code footprint 123 KB, 423 KB partly due to modular structure.
- Older
- Leaflet lacks some supports such as Web Feature Service (WFS) and some projection options, but can usually be mitigated with plugins.

### Google Maps API:

- Proprietary, closed source
- Although it's fast, simple, and flexible
- Only recently does the DataLayer allow connection to external data sources

### Bing Maps API::

- Proprietary, closed source
- Pricy

### Features and Functionality

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- Layering -
  - Overview: tiled web maps hosted on public server with optional tiled overlays
  - One basemap plus 0+ translucent overlays and 0+ vector objects

