

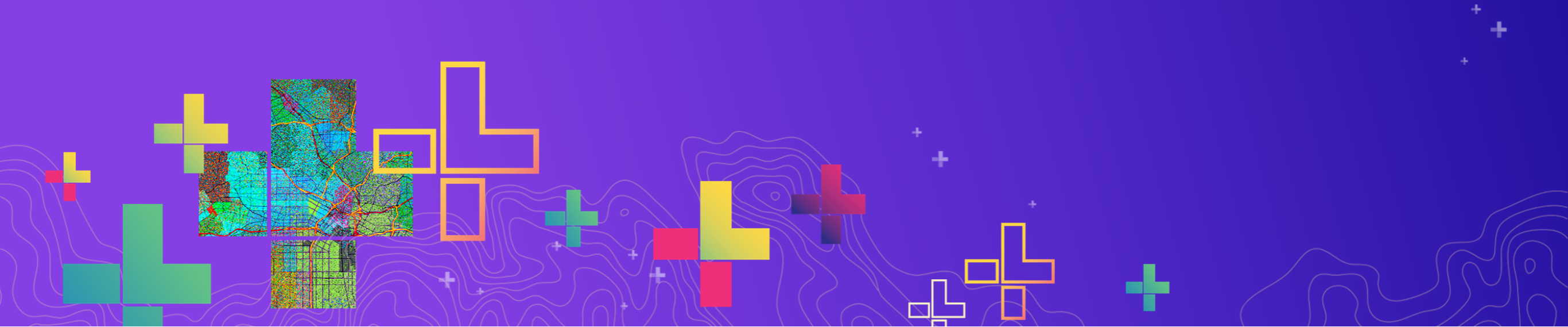


Building apps with Esri Leaflet

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Slides: <http://bit.ly/2TrH54j>

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What is Leaflet?

Leaflet is a small, simple mapping API

- 36kb
- Raster Tiles and Grids
- Points, Lines, Polygons
- Popups
- Web Mercator Only

Leaflet is plugin powered

Tile & image layers	Overlay Display	Map interaction	Miscellaneous
Basemap providers	Markers & renderers	Layer switching controls	Geoprocessing
Basemap formats	Overlay animations	Interactive pan/zoom	Routing
Non-map base layers	Clustering/decluttering	Bookmarked pan/zoom	Geocoding
Tile/image display	Heatmaps	Fullscreen	Plugin collections
Tile load	DataViz	Minimaps & synced maps	
Vector tiles		Measurement	Integration
	Overlay interaction	Mouse coordinates	Frameworks & build systems
Overlay data	Edit geometries	Events	3rd party
Overlay data formats	Time & elevation	User interface	
Dynamic data loading	Search & popups	Print/export	
Synthetic overlays	Area/overlay selection	Geolocation	
Data providers			<hr/> Develop your own

What is Esri Leaflet?

A plugin for Leaflet that simplifies integrating ArcGIS services into Leaflet.

Community Powered

- Most 🌟'ed Esri GitHub project
- Most contributors of Esri's GitHub projects
- Maintained by @patrickarlt, @gavinr, @jwasilgeo.
- No roadmap, no product lifecycle

Why use Esri Leaflet?

- Small footprint
- Simple APIs
- Access other Leaflet plugins
- Open source
- Stable

Why use the JS API instead

- Vastly more capabilities
- Web GL Visualization (performance)
- Widgets
- 3d
- Tighter integration with ArcGIS
 - Renderers
 - Web Maps
 - Identity
 - Editing

Demos

Just Leaflet

Tile Layer, Point, Line, Polygon, Popup.

Demo

w/ Esri Leaflet

Tile Layer, Feature Layer, Search.

Demo

Map Service w/ Esri Leaflet

Esri Leaflet DynamicMapLayer = JS API's MapImageLayer.

Demo

Clustering w/ a plugin

Cluster markers to reduce noise and improve performance.

Demo

Editing w/ a plugin

Integrate Esri Leaflet with Leaflet editing plugins.

Demo

Mix with other libraries

Using and integrate other non mapping libraries like Ceder for charting.

Demos

Other Leaflet plugins

OSRM (Open Source Route Machine)

Demo

Other Leaflet plugins (part 2)

Dynamic Labeling with Label Gun

Demo

Keep in mind

- JS API has a lot of this built in
- Think about what is right for your project
 - Scope
 - Simplicity
 - Growth

Getting Help

- Docs and examples
- GitHub Issues (Last resort, please!)

Esri Leaflet in 2020

- Vector Tile support ([Demo](#))
- Improved caching for Feature Layers
- Continued small updates and fixes
- Clearer separation of official, community and experimental plugins

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