



Web Map Development

Prairieview Discovery Day

Mr. Noah

Product Engineer - ArcGIS Maps SDK for JavaScript

May 19, 2023



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About me

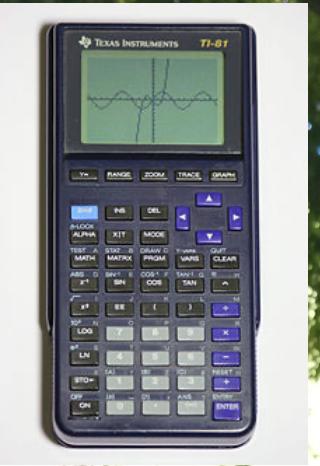
Bring on the Papers!



Bring On the Papers!
Esri UC Call for Papers Closes October 26

Do you have a GIS story to change the world? Cap your insights.

"Go for it! You have everything to



About you

About web map development





What is...
Geography?



Everything is related.

Things that are closer
are more related than
things that are farther
away.



What is...

Geography?
GIS?



Geographic Information System (GIS) lets us visualize, question, analyze, and interpret data to understand relationships, patterns, and trends. GIS benefits organizations of all sizes and in almost every industry.



GIS is a
tool/science/technology
that collects, analyzes,
and visualizes spatial
relationships on a
computer*.



What is...

Geography?
GIS?
web map development?



Web map development is a
~~kickbutt~~ great way to solve
geospatial problems in
a creative and totally
relevant/unique workflow.



So what?

Faulty trail app leaves tourist stranded overnight on a cliff face

North Shore News

By **Brent Richter** - October 9, 2018

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North Shore Rescue says a tourist using a faulty trail map app on his phone was led astray into danger Monday evening.

The hiker, a 37-year-old man who was visiting from the U.K., was using the Maps.me app to navigate his way off Crown Mountain.





GATOR

Find address or place



Legend

- Sub-Tropical Depression
- Sub-Tropical Storm
- Tropical Depression
- Tropical Storm
- Hurricane

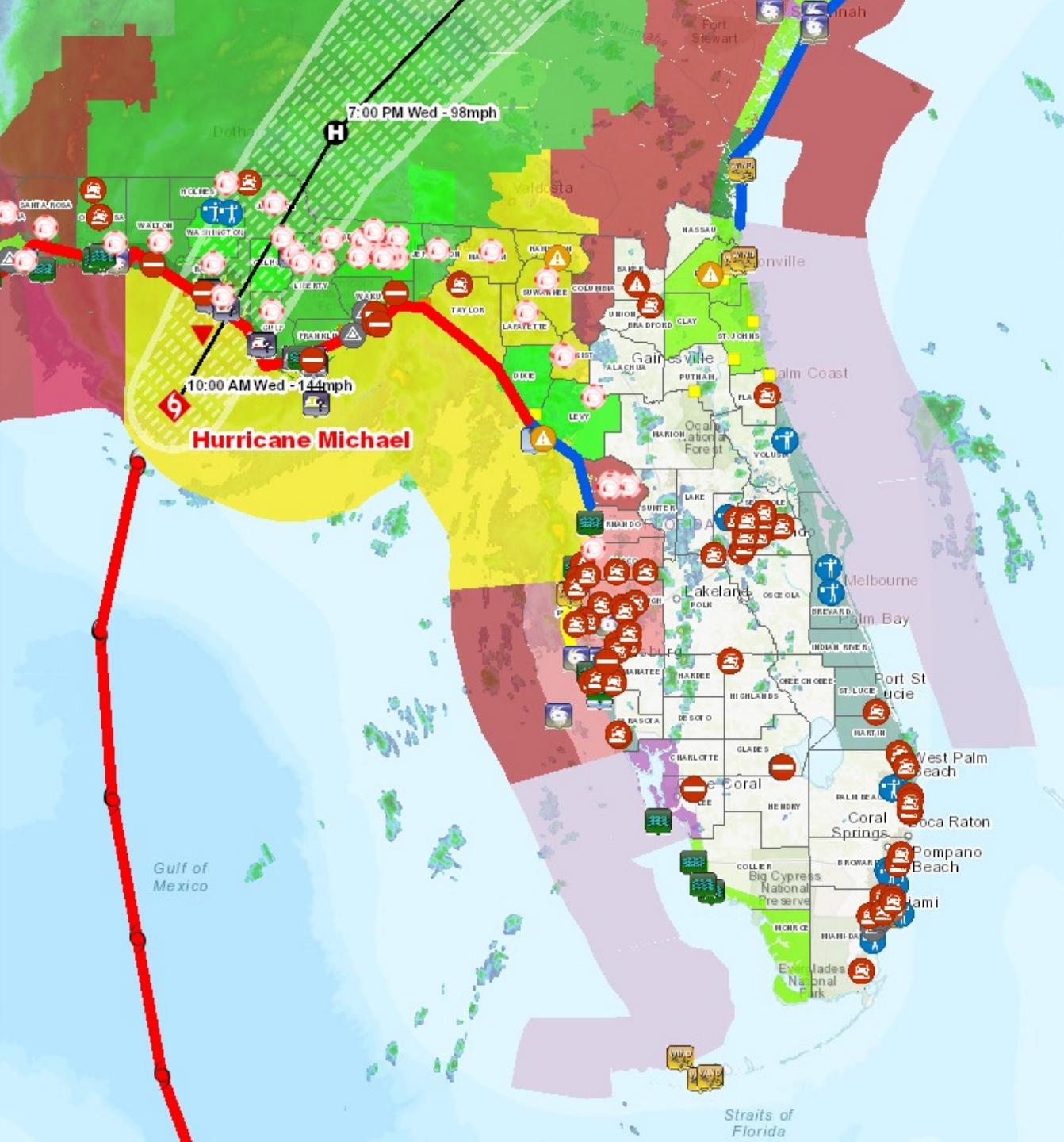
Past Track

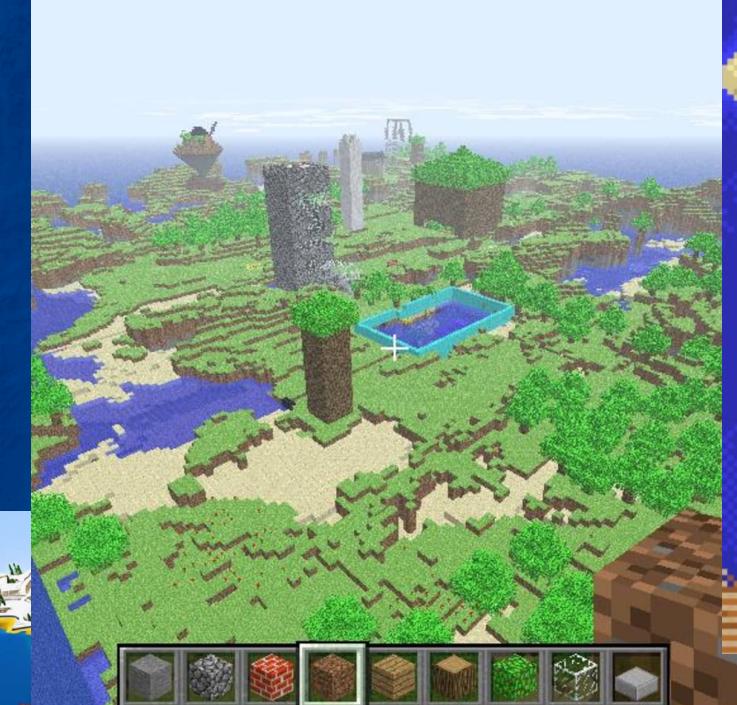
- Post-Tropical Cyclone
- Wave
- Disturbance
- Low
- Sub-Tropical Depression
- Sub-Tropical Storm
- Tropical Depression
- Tropical Storm
- Hurricane

River Conditions

Currently Flooding (Florida)

- Major Flooding
- Moderate Flooding
- Minor Flooding
- Near Flood Stage
- Normal
- Low Threshold





**FORTNITE
CHAPTER 4
NEW MAP!**





Questions?

Why JavaScript?



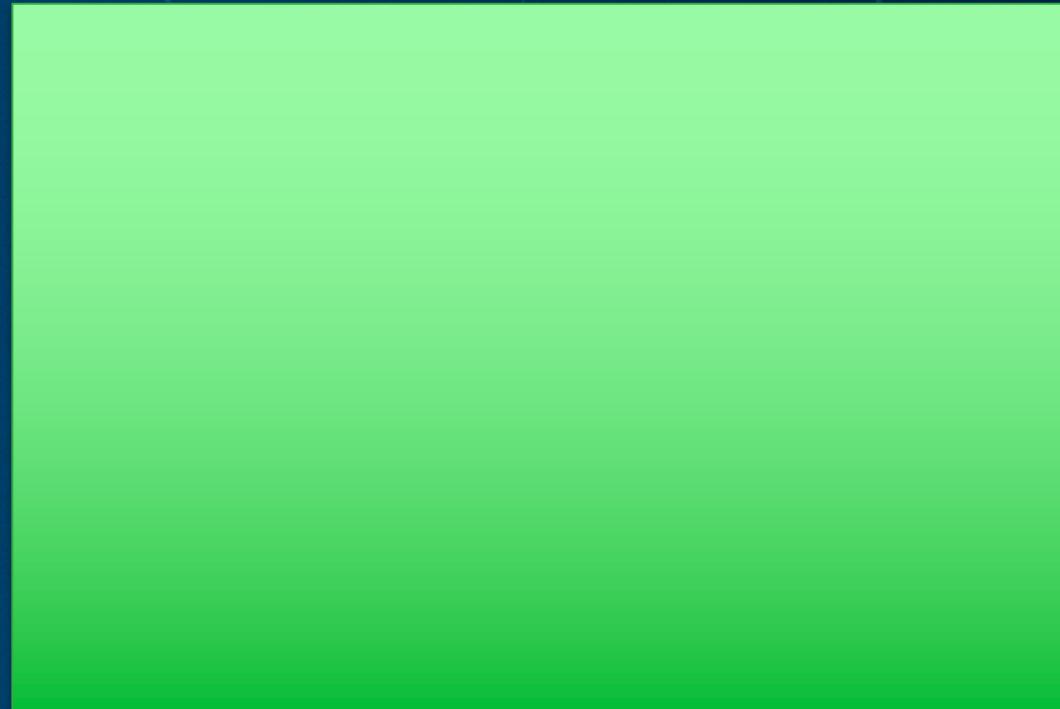
Why JavaScript?

Diplomatic language of the Internet

Browser and platform agnostic

REST

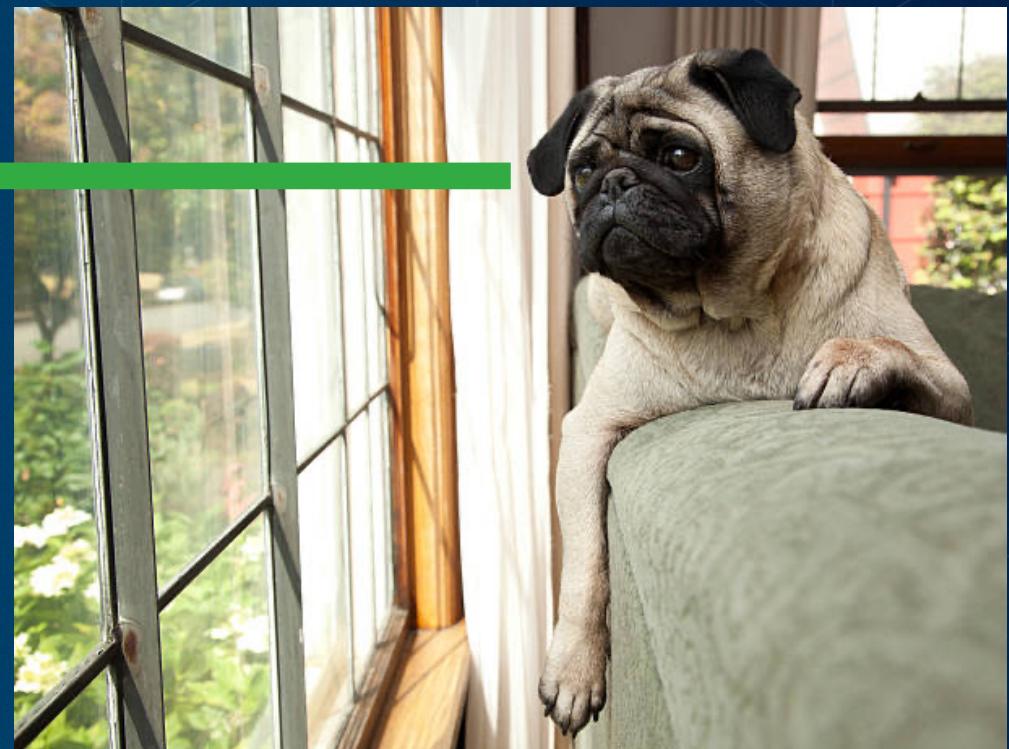
map



map



view



ArcGIS Maps SDK for JavaScript / Sample Code

```
1 <html lang="en">
2   <head>
3     <meta charset="utf-8" />
4     <meta
5       name="viewport"
6       content="initial-scale=1,maximum-scale=1,user-scalable=no"
7     />
8   <title>
9     Intro to MapView - Create a 2D map | Sample | ArcGIS Maps SDK for
10    JavaScript 4.26
11  </title>
12  <style>
13    html,
14    body,
15    #viewDiv {
16      padding: 0;
17      margin: 0;
18      height: 100%;
19      width: 100%;
20    }
21  </style>
22
23  <link
24    rel="stylesheet"
25    href="https://js.arcgis.com/4.26/esri/themes/light/main.css"
26  />
27  <script src="https://js.arcgis.com/4.26/"></script>
28
29  <script>
30    require(["esri/Map", "esri/views/MapView"], (Map, MapView) => {
31      const map = new Map({
32        basemap: "topo-vector"
33      );
34
35      const view = new MapView({
36        container: "viewDiv",
37        map: map,
38        zoom: 4,
39        center: [15, 65] // longitude, latitude
40      );
41    });
42  </script>
43 </head>
44
45  <body>
46    <div id="viewDiv"></div>
47  </body>
48 </html>
```

```
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta
      name="viewport"
      content="initial-scale=1,maximum-scale=1,user-scalable=no"
    />
    <title>
      Intro to MapView - Create a 2D map | Sample | ArcGIS Maps SDK for
      JavaScript 4.26
    </title>
    <style>
      html,
      body,
      #viewDiv {
        padding: 0;
        margin: 0;
        height: 100%;
        width: 100%;
      }
    </style>
```

```
<link  
    rel="stylesheet"  
    href="https://js.arcgis.com/4.26/esri/themes/light/main.css"  
/>  
<script src="https://js.arcgis.com/4.26/"></script>
```

```
<script>
  require(["esri/Map", "esri/views/MapView"], (Map, MapView) => {
```

```
const map = new Map({  
  basemap: "topo-vector"  
});
```

```
const view = new MapView({  
  container: "viewDiv",  
  map: map,  
  zoom: 4,  
  center: [15, 65] // longitude, latitude  
});
```

ArcGIS Developers Documentation Features Pricing Support

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ArcGIS Maps SDK for JavaScript Overview Sample Code API Reference Showcase Blogs

Overview

Find page...

- Overview
- Key features
- Get started
- Install and set up
- > Release notes
- FAQ
- Community
- > Tutorials
- > Core concepts
- > Visualization
- > Building your UI
- > Working with ArcGIS Online and Enterprise
- > Developer tooling

Current version: [4.26](#) (February 2023)

This guide describes how to use ArcGIS Maps SDK for JavaScript to build compelling web apps that unlock your data's potential with interactive user experiences and stunning 2D and 3D visualizations.

Census Tracts

Households by Income Range

- Households making less than \$25,000
- Households making \$25,000 to \$50,000
- Households making \$50,000 to \$100,000

On this page

- Where to start
- Sample code
- Showcase
- Tutorials
- Blog

Looking for 3.x ?

Was this page helpful?

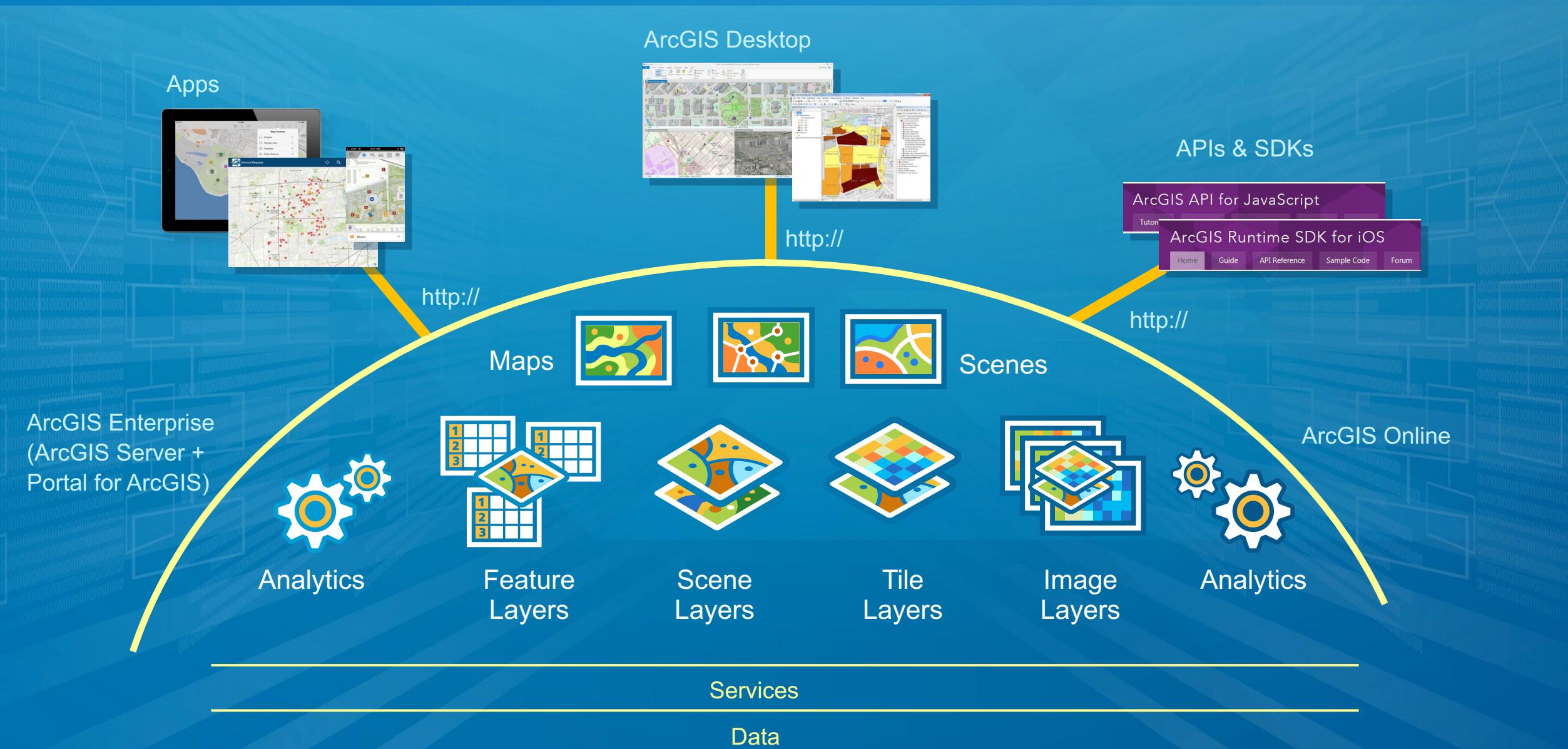
Yes No

Esri Leaflet

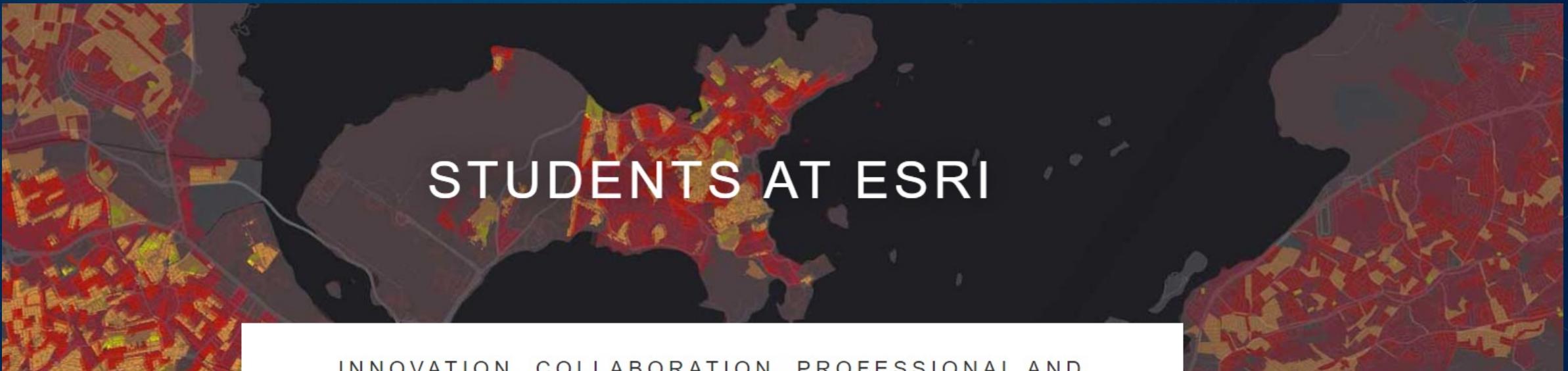
A lightweight set of tools for using ArcGIS services with [Leaflet](#).

[Examples](#)[API Reference](#)[Download](#)[Terms](#)

The ArcGIS Platform



Career Opportunities



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ArcGIS Blog

MAPPING AND VISUALIZATION

Improved map and scene navigation with gamepad support

Multiple Authors | ArcGIS API for JavaScript | September 27, 2018

Use gamepad for an improved map and scene navigation experience.

[Read this article](#)

ANNOUNCEMENTS

ArcGIS API 4.9 for JavaScript: What's new (September 2018)

Julie Powell | ArcGIS API for JavaScript | September 27, 2018

What's New in the ArcGIS API for JavaScript (September 2018), version 4.9

[Read this article](#)

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Thank you!

Questions?

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Prairieview Discovery Day



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