

CSULA Senior Design Workshop

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About Me

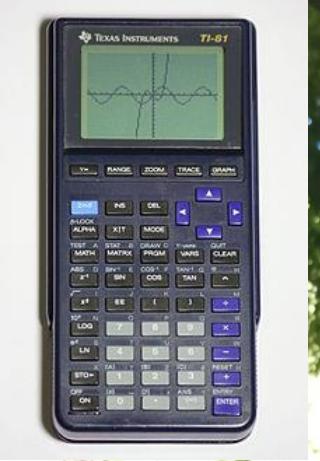
Bring on the Papers!



"Go for it! You have everything to

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.





The background features a dark blue gradient with a subtle grid pattern. Scattered across the surface are numerous 3D-style blue cubes of varying sizes, some with a light gray or white face, creating a sense of depth and technology.

Now To Business



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...

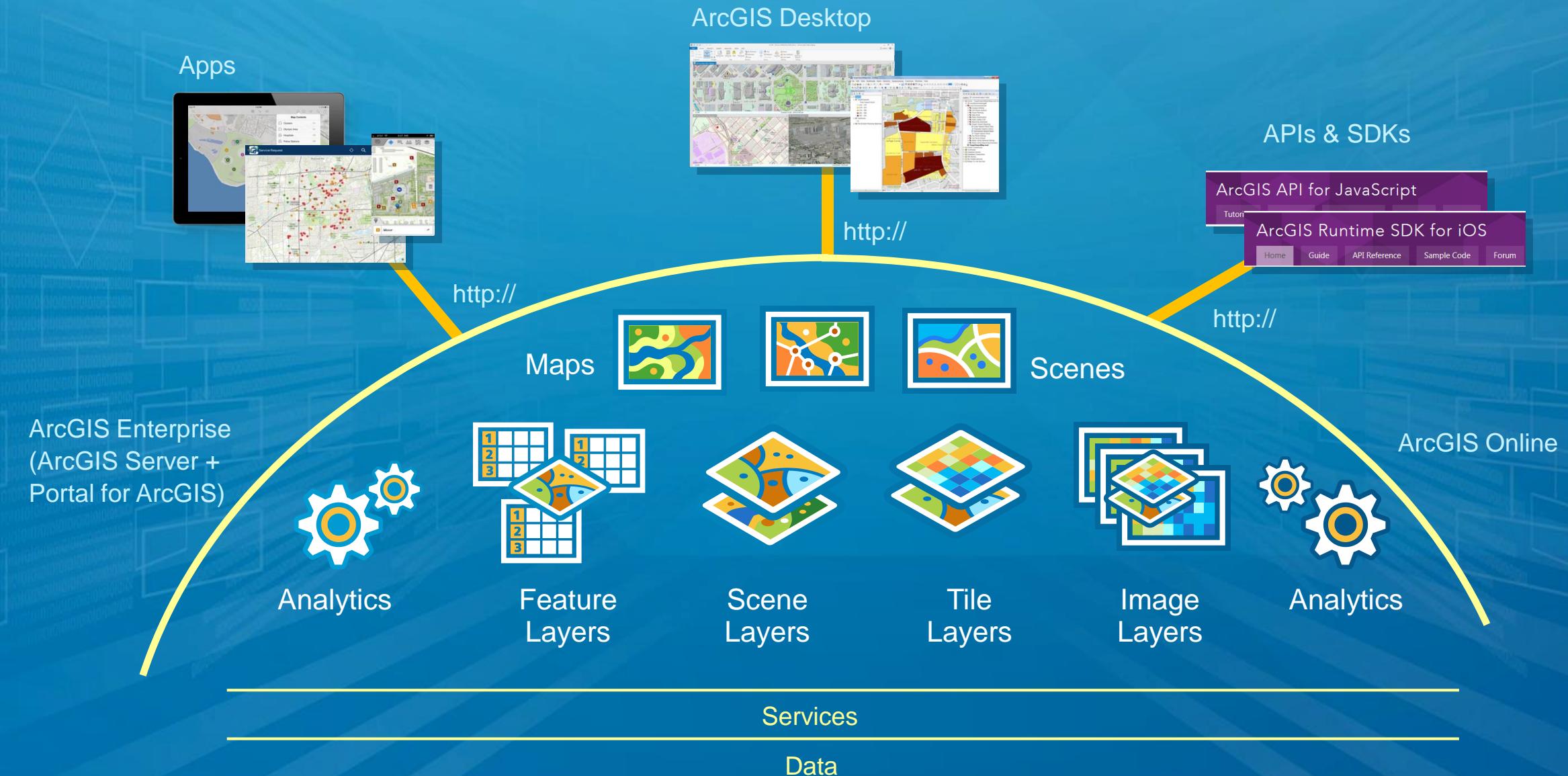
Geography?
GIS?
ArcGIS?



ArcGIS is an Esri GIS solution.

Desktop (Windows, Mac, Linux)
Mobile (Android, iOS, Windows)
Web (Chrome, IE, Opera, etc.)

The ArcGIS Platform





What is...

Geography?
GIS?
ArcGIS?
GIS Programming?



GIS Programming is a kickbutt way to solve geospatial problems in a creative and totally relevant/unique workflow.

A screenshot of the ArcGIS for Developers website. The top navigation bar includes links for "ArcGIS for Developers", "Dashboard", "Get Started", "Documentation", "Pricing", and "Support". A search icon and user profile "Noah" are also present. The main banner features a woman working on a laptop, with text overlay: "A complete mapping and analytics platform for developers". Buttons for "View Dashboard" and "Start Developing Your App" are shown. Below the banner is a row of developer tool icons: JS, Android, iOS, Coffee Cup, .NET, Qt, Python, REST, and Book.

ArcGIS for Developers

Dashboard + ▾ Get Started Documentation Pricing Support

Noah

A complete mapping and analytics platform for developers

[View Dashboard](#) [Start Developing Your App](#)

JS

Android

iOS

Coffee Cup

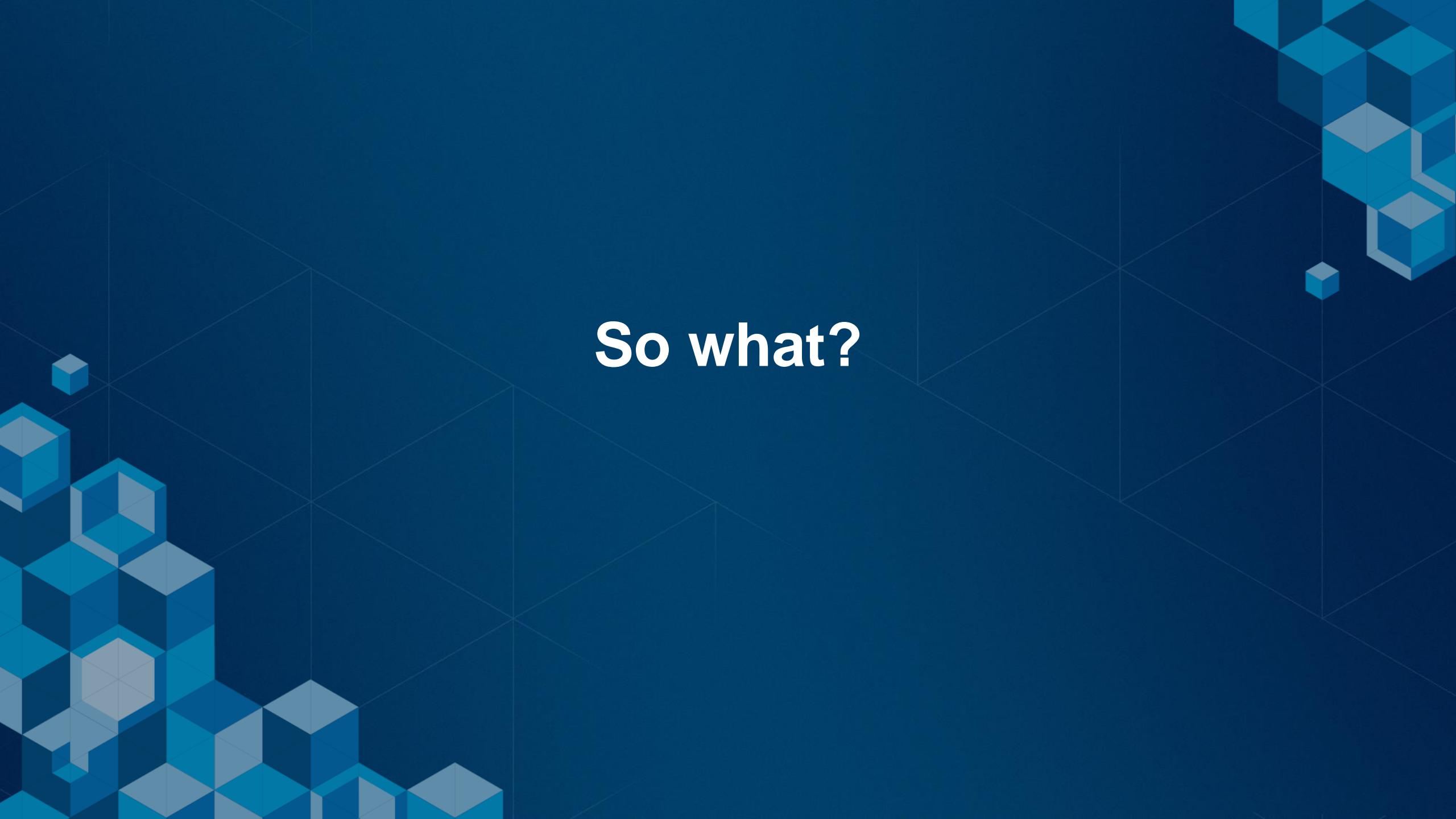
.NET

Qt

Python

REST

Book

The background features a dark blue gradient with a subtle grid pattern. In the bottom left corner, there is a cluster of blue and light blue 3D cubes of varying sizes. In the top right corner, there is another cluster of similar cubes, with one cube standing alone further back.

So what?

Faulty trail app leaves tourist stranded overnight on a cliff face

North Shore News

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



Share on Facebook



Tweet on Twitter



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

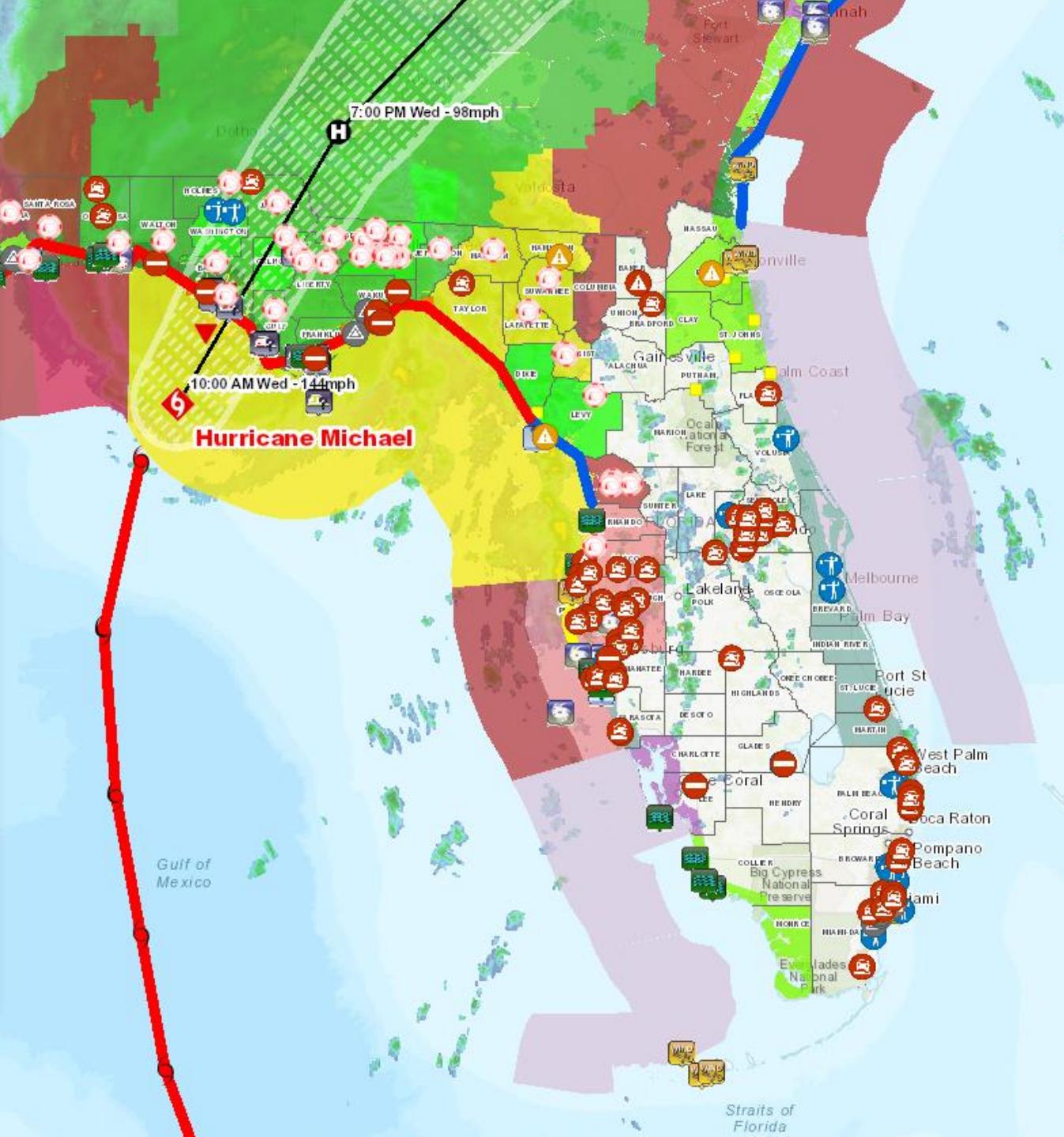
Past Track

- 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



Find address or location

Calgary
Regina
Vancouver
Seattle
Washington
Portland
Oregon
Idaho
Wyoming
Salt Lake City
Denver
Utah
Colorado
Nevada
Sacramento
San Francisco
Fresno
Las Vegas
California
Los Angeles
Phoenix
Tucson
New Mexico
Tijuana

RANCH FIRE

400km
300mi
52.467 -96.574 Degrees

Source: Esri, DigitalGlobe

About this application

About the map
Map legend

News Observations

- Active fire report
- Active perimeter

NWS Watches Warnings - Severe Events

- 911 Telephone Outage
- Administrative Message
- Air Quality Alert
- Air Stagnation Advisory
- Arroyo and Small Stream Flood Advisory
- Ashfall Advisory
- Ashfall Warning
- Avalanche Advisory

ArcGIS API for JavaScript

<https://developers.arcgis.com/javascript>

The screenshot shows the ArcGIS API for JavaScript homepage. At the top, there's a navigation bar with links for ArcGIS for Developers, Dashboard, Get Started, Documentation, Pricing, Support, a search icon, and a user profile for Noah. Below the header is a purple banner with a world map background. It displays the text "ArcGIS Web API / JavaScript API / 4.9" and "ArcGIS API for JavaScript". To the right of the text is a graphic showing a laptop displaying a 3D globe with yellow and red data points, and a smartphone displaying a 2D map with a legend. Below the banner is a navigation menu with links for Home, Guide, API Reference, Sample Code, and Support. The main content area features a large heading "Build 2D and 3D web apps!" followed by a paragraph about the 4.x series of the API. A blue button labeled "Learn about 4.9" is present. To the right, a dark callout box contains text about building full-featured 2D web apps and a "Go to 3.26" button. At the bottom, there's a code snippet for referencing the CDN, and a footer with links for "Get the API", "Release notes", "FAQ", "System requirements", and "View samples".

ArcGIS for Developers Dashboard + Get Started Documentation Pricing Support

ArcGIS Web API / JavaScript API / 4.9

ArcGIS API for JavaScript

Home Guide API Reference Sample Code Support

Build 2D and 3D web apps!

The 4.x series of the ArcGIS API for JavaScript integrates 2D and 3D into a single, easy-to-use, powerful mapping API. Create 3D maps as easily as 2D maps, seamlessly integrate your web GIS and build influential data-driven visualizations.

Learn about 4.9

```
// Reference the JavaScript API from our CDN and you are ready to get started:  
<link rel="stylesheet" href="https://js.arcgis.com/4.9/esri/css/main.css">  
<script src="https://js.arcgis.com/4.9/"></script>
```

Need to build a full-featured 2D web app with capabilities such as editing and support for all existing layer types?

Go to 3.26

Choosing a version ▶

Get the API | Release notes | FAQ | System requirements | View samples

Update FeatureLayer using applyEdits()

The map displays a dense cluster of incident locations in Riverside, California, marked by various icons such as red flags, green trees, orange cones, and blue question marks. The locations are scattered across several neighborhoods, including Redlands, Cypress Park, and Citrus Hill. A callout box titled "Report Incidents" contains the following information:

- Click Add incident button
- Click on the map to create the incident
- Change the incident type

Add incident

Or

Select an incident to edit or delete.

City of Riverside, County of Riverside, Esri, HERE, Garmin, INCREMENT P, NGA, USGS | Esri, HERE

Powered by Esri

Edit rivers and waterbodies

https://developers.arcgis.com/javascript/3/samples/ed_simpletoolbar/

Edit Hydrography

Wildfire Response Points

- MediVac Site
- Aerial Hazard
- Camp
- Division Break
- Drop Point
- Fire Origin
- Fire Station
- First Aid Station
- Helibase
- Hot Spot
- Lookout
- Mobile Weather Unit
- Safety Zone
- Spot Fire
- Water Source

Wind Speed Direction

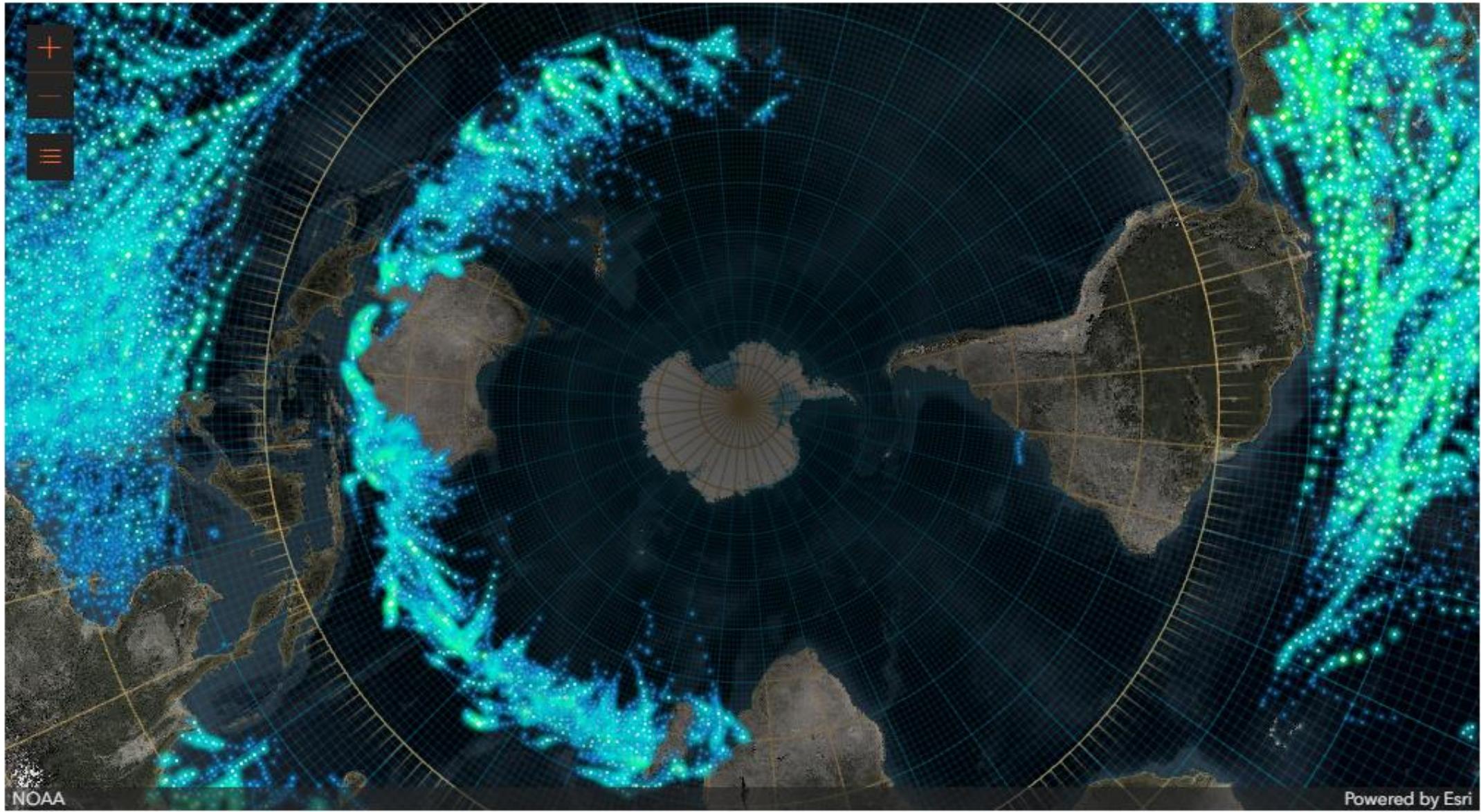
Wildfire Response Polygons

- IR Heat Perimeter
- IR Intense Heat Area
- Maximum Manageable Area (MMA)

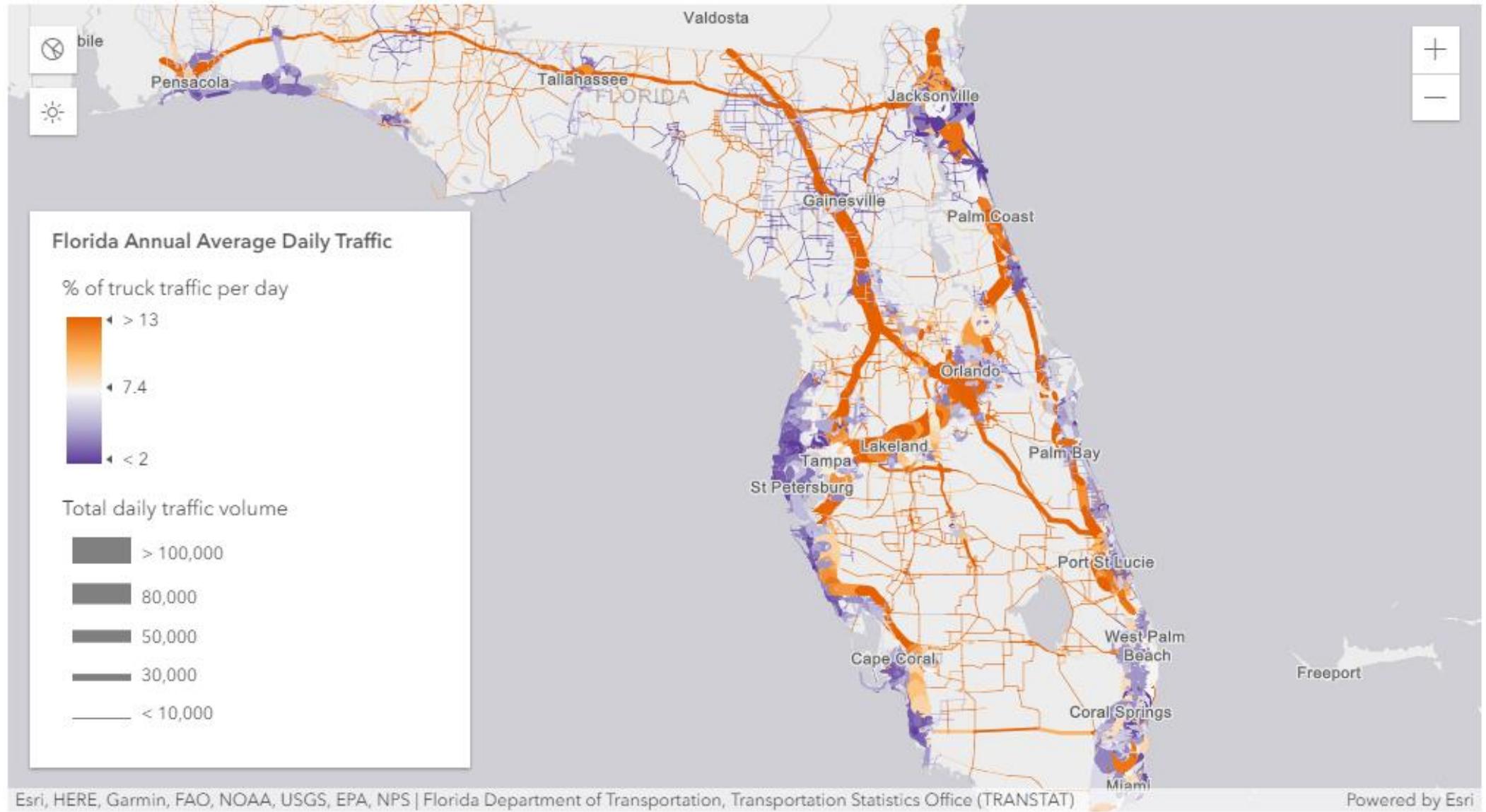
The map displays a satellite view of a rural area with fields, roads, and a town labeled "Cottonwood Falls". Several key locations are marked: "Chase State Fishing Lake & Wild", "Prairie Creek", "Spring Creek", and "Buck Creek". A large red polygon, representing the Maximum Manageable Area (MMA), covers a significant portion of the western and southern parts of the map. Inside this MMA, there are several smaller red polygons representing IR Heat Perimeters. Numerous blue dashed arrows indicate wind speed and direction, generally blowing from the west towards the east. Various other symbols are scattered across the map, including purple triangles for aerial hazards, white circles with 'T' for MediVac sites, blue crosses for fire stations, and red dots for hot spots. A yellow warning sign is also visible near the bottom left.

POWERED BY esri

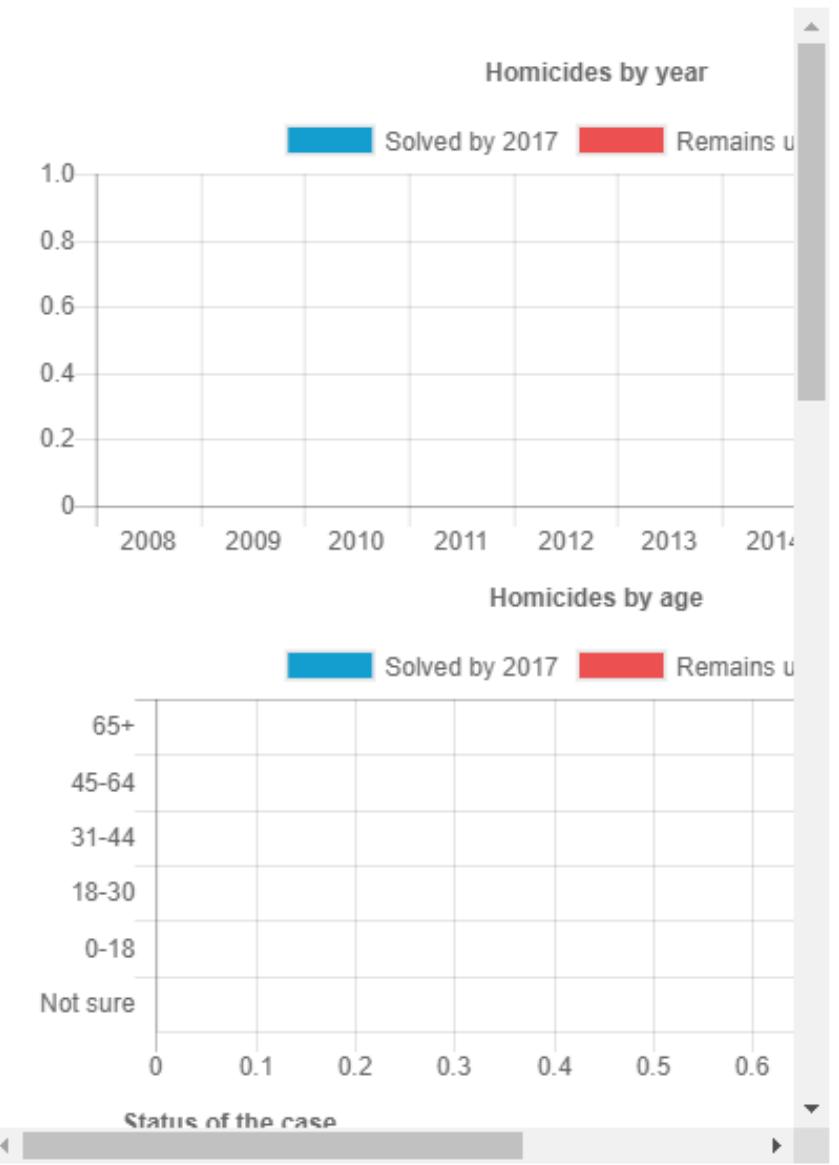
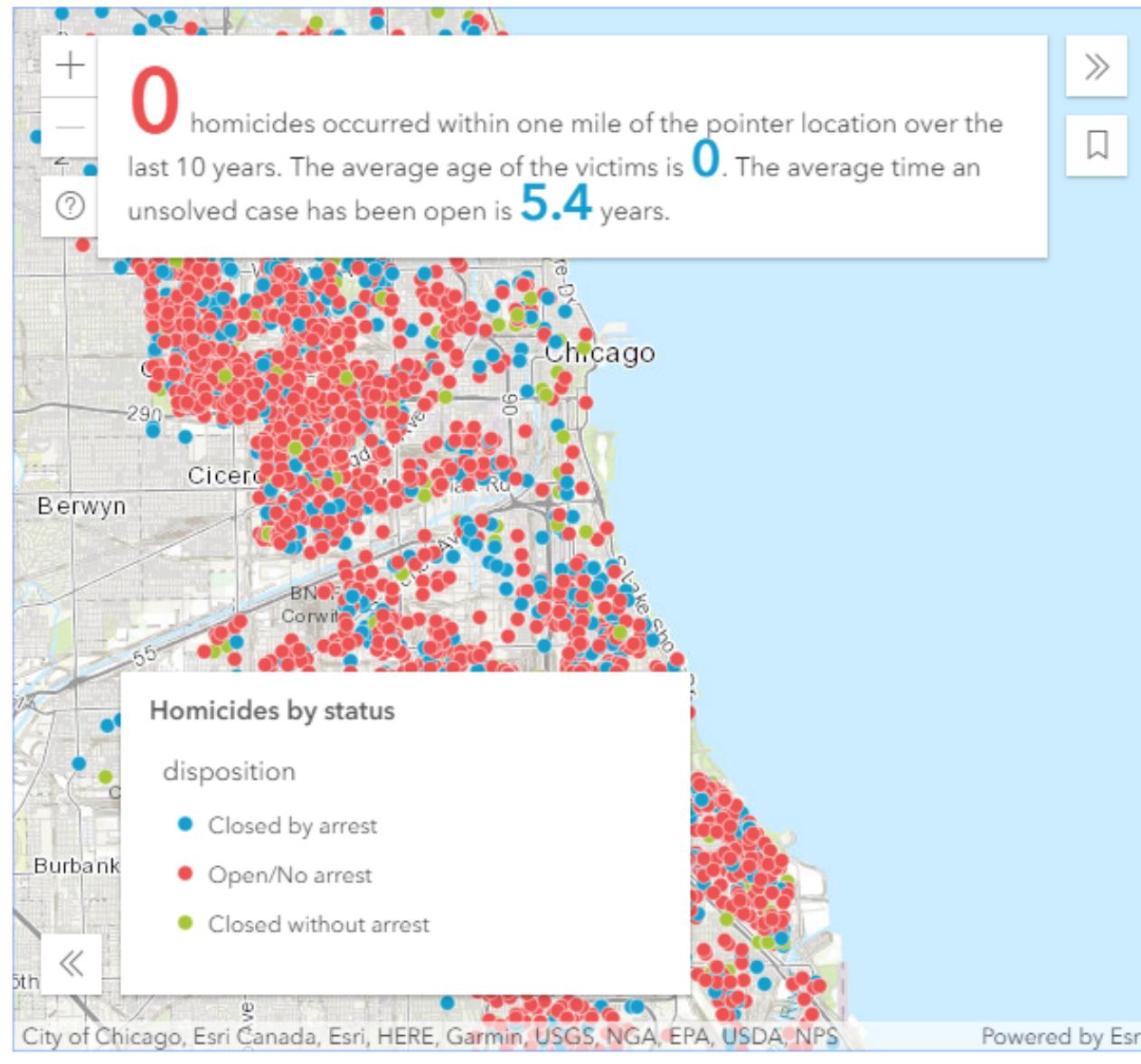
CSVLayer - Project points on the fly



Multivariate data exploration



Query statistics client-side by distance



Esri Leaflet

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

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

Career Opportunities



STUDENTS AT ESRI

INNOVATION, COLLABORATION, PROFESSIONAL AND
PERSONAL GROWTH

Whether you are looking to gain hands-on experience to add to your résumé or you're ready to launch your career, you'll find this and much more at Esri.

New Grads

Internship Program

Student Assistantship Program

30 POSITIONS

Job Category

CAREERS HOME

JOB SEARCH

RECRUITING EVENTS

STUDENTS & GRADS

BENEFITS



<https://community.esri.com/community/esri-young-professionals-network>



Products

Industries

About

Support



Sign In

GeoNet

The Esri Community

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Browse GeoNet ▾

Communities ▾

ArcGIS Ideas

GeoNet Resource Hub

Log in



All Places >

Esri Young Professionals Network

Actions ▾



Overview

Esri UC

FedGIS

Regional Events

Activity

Content

People

Subspaces

Calendar

<https://community.esri.com/groups/geodev>

The screenshot shows the Esri Geo Developers group page. At the top, there's a banner image of a group of people in a conference room. Below the banner, the group name "Geo Developers" is displayed, along with navigation links for "Activity", "Content", "People", and "Calendar". On the right side of the header, there are "Actions" and an information icon.

The main content area features a purple circular profile picture of the Earth. To its right are three smaller map images: a world map showing the Tyrrhenian Sea, a San Francisco Crime Map, and a map of New York City with red and yellow lines. Below these images are the group's statistics: Tweets (1,999), Following (1,877), Followers (4,438), Likes (1,123), and Lists (3).

The left sidebar contains the group's bio: "For our unique GeoDev friends, a special Twitter account. We hope to meet you at a #GeoDev Meetup, tech conference, hackathon or the #DevSummit." It also lists the location as Redlands, CA, the website as developers.arcgis.com, and the joining date as August 2010. There are "Tweet to" and "Message" buttons at the bottom of this sidebar.

The central column has tabs for "Tweets", "Tweets & replies", and "Media". The "Tweets" tab is active, showing a recent tweet from "Esri GeoDev" (@EsriGeoDev) about a presentation at a meetup. Below the tweet are two small images: one of a person at a podium and another of a group of people seated around a table.

The right sidebar is titled "Who to follow" and lists three accounts: "ArcGIS Enterprise" (@ArcGl...), "Amy Niessen" (@AmyNiessen), and "Esri Globe" (@EsriGlobe). Each account has a "Follow" button next to it.

@EsriGeoDev



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Enterprise

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Server Components

Portal for ArcGIS

and more...

Online

ArcGIS Online

Developers

Web APIs

Native Runtime SDKs

ArcGIS Engine

and more...

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and more...

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Content

and more...



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Esri Headquarters

380 New York Street
Redlands, CA 92373-8100

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Phone +1-909-793-3774

Toll-free +1-888-377-4575

Fax +1-909-792-0960

Website <http://support.esri.com>

Support Web Form <http://support.esri.com/en/webform>

Developers

Web APIs

[ArcGIS API for JavaScript](#)

Native Runtime SDKs

[ArcGIS Runtime SDK for .NET](#)

[ArcGIS Runtime SDK for Android](#)

[ArcGIS Runtime SDK for iOS](#)

[ArcGIS Runtime SDK for Java](#)

[ArcGIS Runtime SDK for macOS](#)

[ArcGIS Runtime SDK for Qt](#)

[ArcGIS Runtime SDK for Windows Mobile](#)

ArcGIS Engine

[ArcGIS Engine](#)

[ArcGIS Engine for Linux](#)

Desktop SDKs

[ArcGIS Explorer SDK \(.NET\)](#)

[ArcGIS Pro SDK \(.NET\)](#)

[ArcObjects SDK \(.NET\)](#)

[ArcObjects SDK \(C++\)](#)

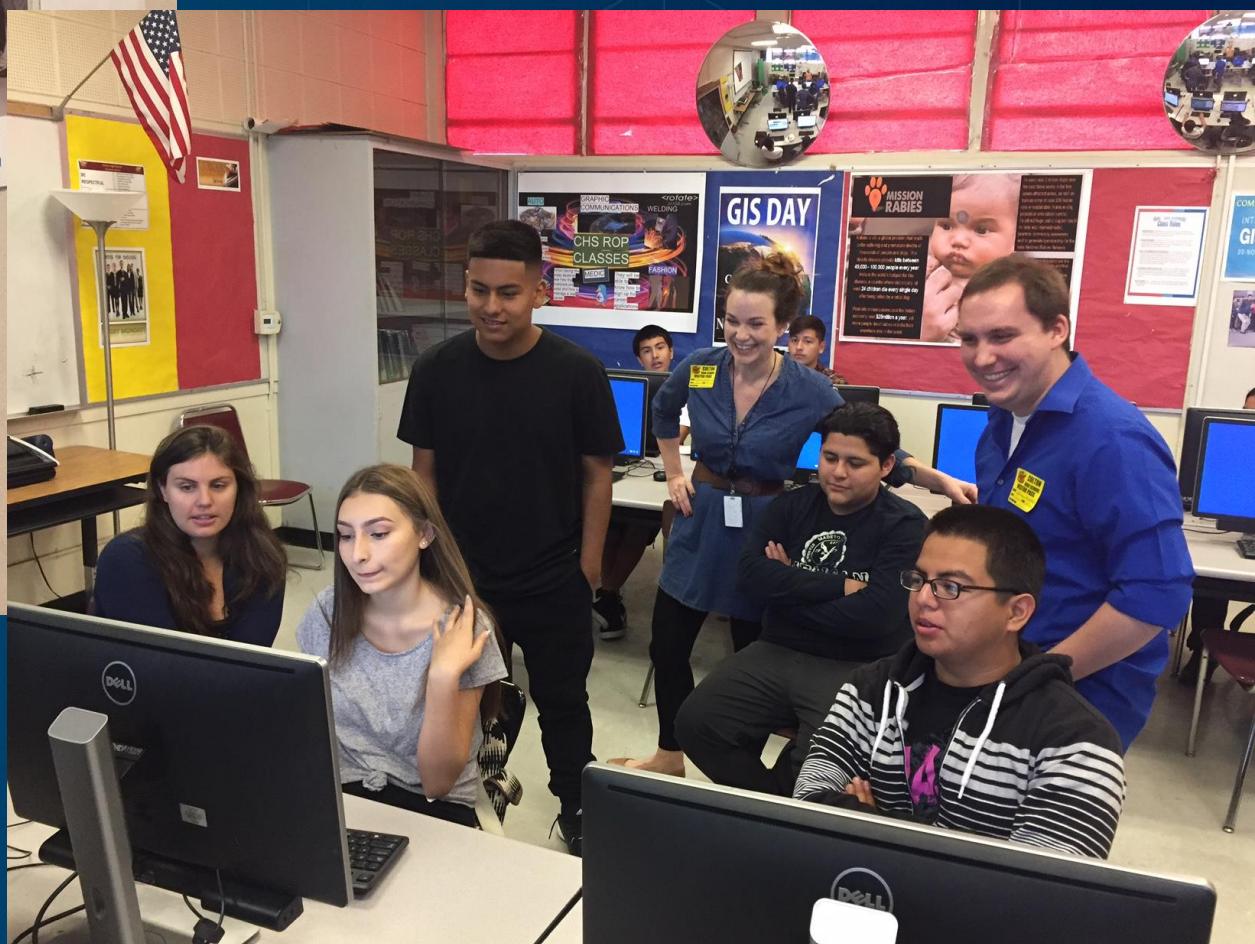
[ArcObjects SDK \(Java\)](#)

Web AppBuilder for ArcGIS (Developer Edition)

[Web AppBuilder for ArcGIS \(Developer Edition\)](#)

Scripting and Automation

[ArcGIS Python API](#)



Hackathons

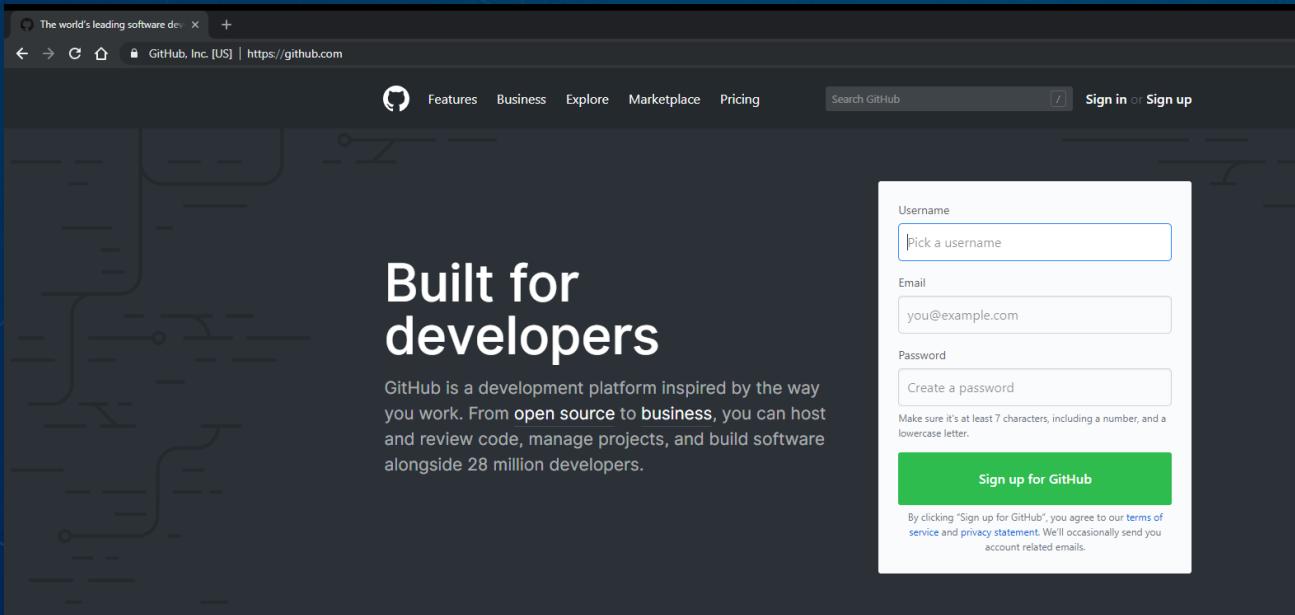


Outreach

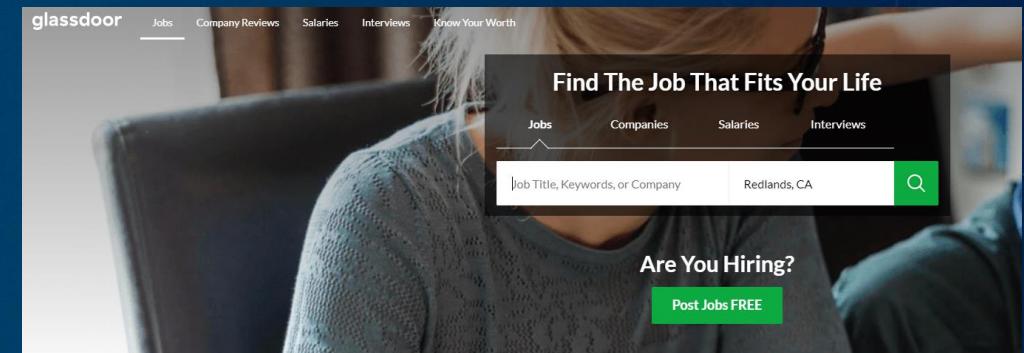


Unsolicited Advice

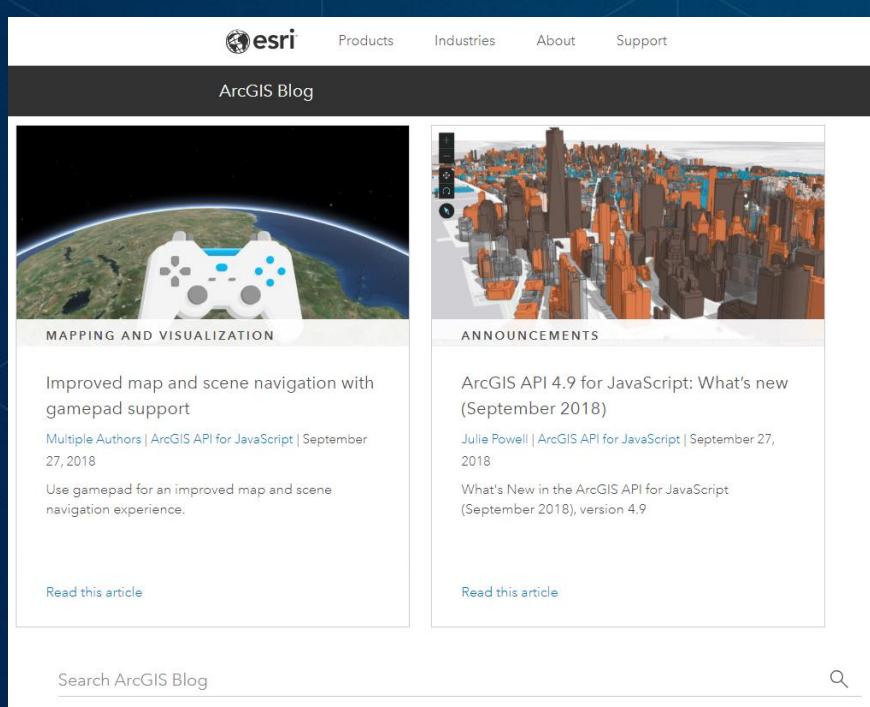
The world's leading software dev + GitHub, Inc. [US] | https://github.com



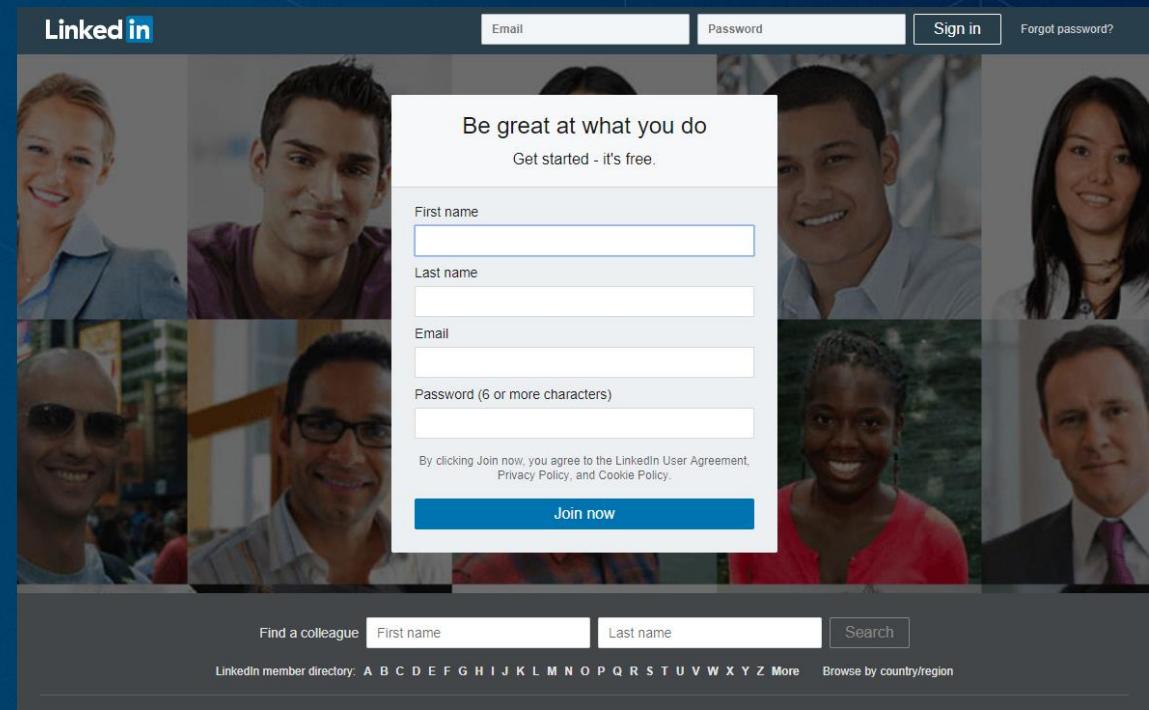
The GitHub homepage features a dark background with a faint circuit board pattern. On the left, there's a large white text area with the heading "Built for developers". Below it, a paragraph explains GitHub as a development platform. To the right is a sign-up form with fields for Username, Email, and Password, followed by a green "Sign up for GitHub" button. A small note at the bottom states: "By clicking 'Sign up for GitHub', you agree to our [terms of service](#) and [privacy statement](#). We'll occasionally send you account related emails."



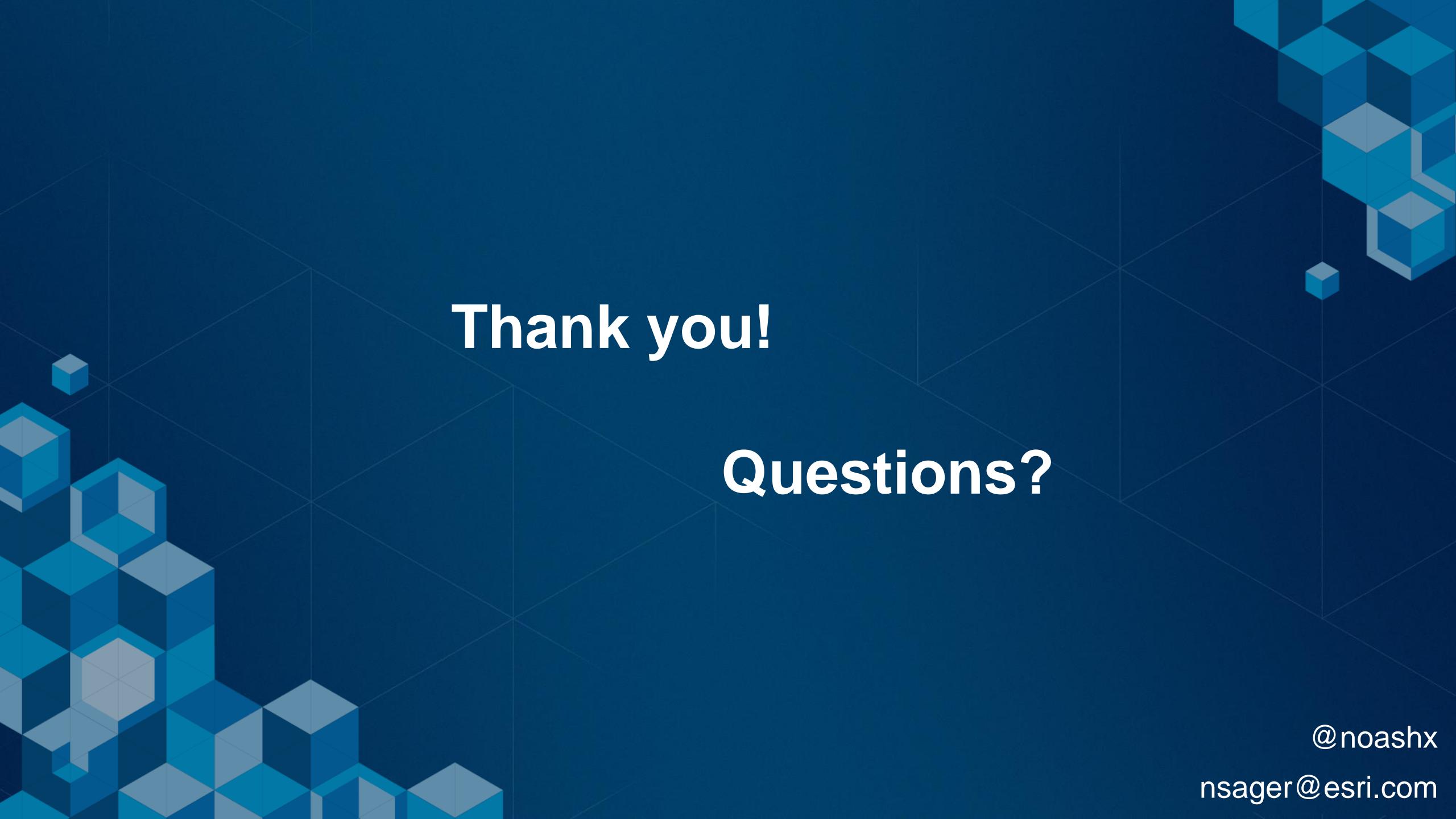
The Glassdoor homepage has a blue header with the company logo and navigation links: Jobs, Company Reviews, Salaries, Interviews, and Know Your Worth. The main section features a woman in a grey sweater with the text "Find The Job That Fits Your Life". Below that is a search bar with "Job Title, Keywords, or Company" and "Redlands, CA" dropdowns, along with a green search icon. A "Are You Hiring?" section includes a "Post Jobs FREE" button.



The ArcGIS Blog homepage shows two main articles. The first, "Improved map and scene navigation with gamepad support", features a thumbnail of a game controller over a globe and was published on September 27, 2018, by Multiple Authors. The second, "ArcGIS API 4.9 for JavaScript: What's new (September 2018)", features a thumbnail of a 3D city model and was published on September 27, 2018, by Julie Powell. Both articles have a "Read this article" button at the bottom. A search bar at the bottom is labeled "Search ArcGIS Blog".



The LinkedIn homepage has a dark header with the LinkedIn logo, a "Sign in" button, and a "Forgot password?" link. The main area features a collage of diverse people's faces. A prominent call-to-action box on the right says "Be great at what you do" and "Get started - it's free." It includes fields for First name, Last name, Email, and Password, along with a "Join now" button. At the bottom, there are links for "Find a colleague", a search bar, and "LinkedIn member directory" with a comprehensive letter-based index (A through Z) and "More" and "Browse by country/region" options.



Thank you!

Questions?

@noashx

nsager@esri.com