



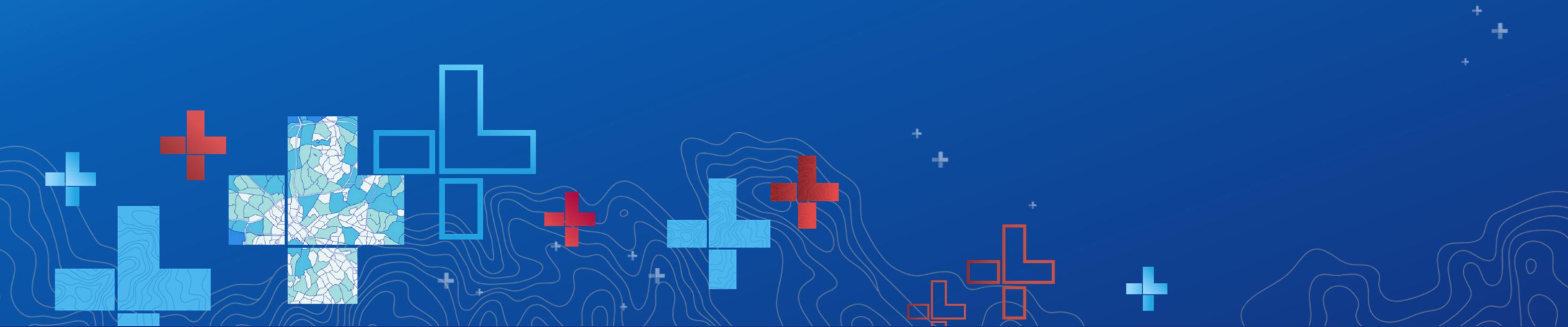
ArcGIS API for JavaScript: Web Editing

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slides: <http://bit.ly/fdgis20we>

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Agenda

- Web editing
- Editor widget
- Custom workflows
- Q&A

Web Editing

 Web Application



 ArcGIS API for JavaScript / ArcGIS REST JS



 REST API



Data in a Feature Service

- Editable
- One or more feature *layers*
- Users will draw, create, and update Features



👉 Set constraints at service level 👈

- can set but **not enforce** in web clients
- consistent behavior across all clients



Feature Layer (hosted)

Editing

Enable editing.

This layer is shared with everyone. Enabling editing means everyone can edit it. If that isn't your intent, create a view of this layer that allows editing. [Learn more.](#)

- Keep track of created and updated features.
- Keep track of who created and last updated features.
- Enable Sync (required for offline use and collaboration).

• Who can edit features?

Share the layer to specific groups of people, the organization or publicly via the Share button on the Overview tab. This layer is currently shared with: Everyone (public)

• What kind of editing is allowed?

- Add, update, and delete features
- Add and update features
- Add features
- Update features
- Update attributes only

• What features can editors see?

- Editors can see all features
- Editors can only see their own features (requires tracking)
- Editors can't see any features, even those they add

• What features can editors edit?

- Editors can edit all features
- Editors can only edit their own features (requires tracking)

• What access do anonymous editors (not signed in) have?

- The same as signed in editors
- Only add new features, if allowed above (requires tracking)

• Who can manage edits?

- You
- Administrators
- Data curators with the appropriate privileges

ArcGIS API for JavaScript

 Configurable widgets

 Granular APIs



Configurable Widgets

- Editor
 - Geometry: Sketch
 - Fields/attributes: FeatureForm
 - FeatureTemplates

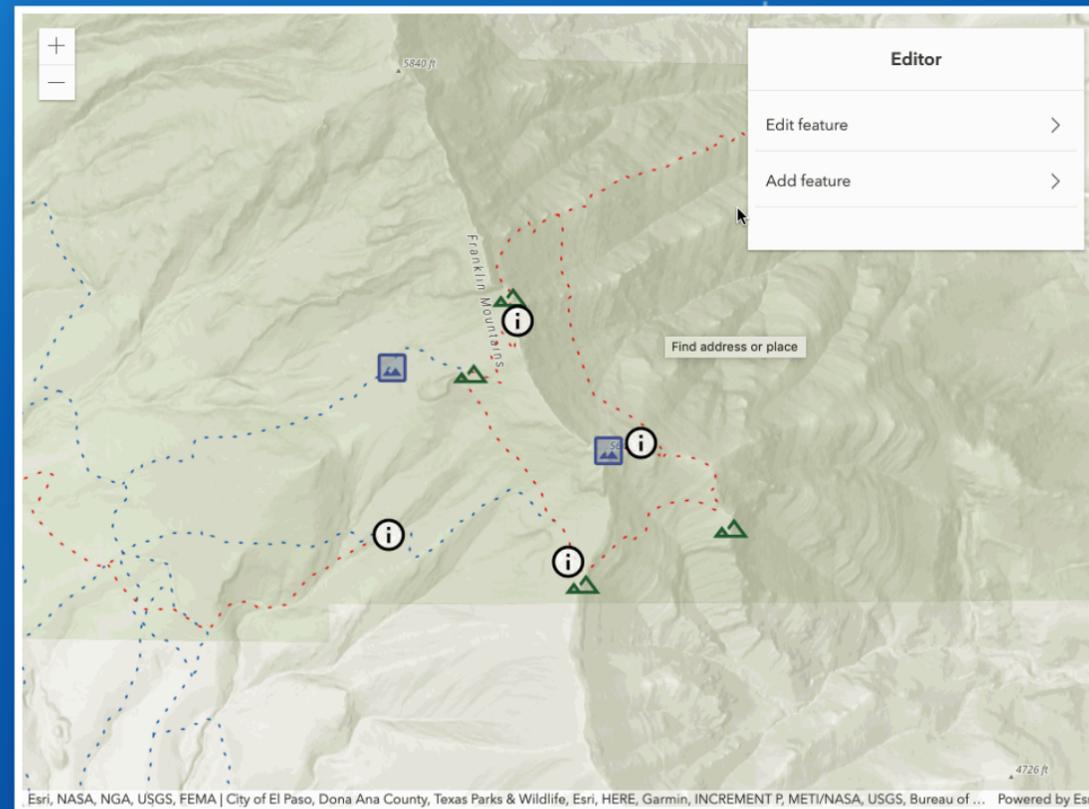


Granular APIs

- SketchViewModel
- GraphicsLayer
- FeatureLayer.applyEdits
- geometryEngine

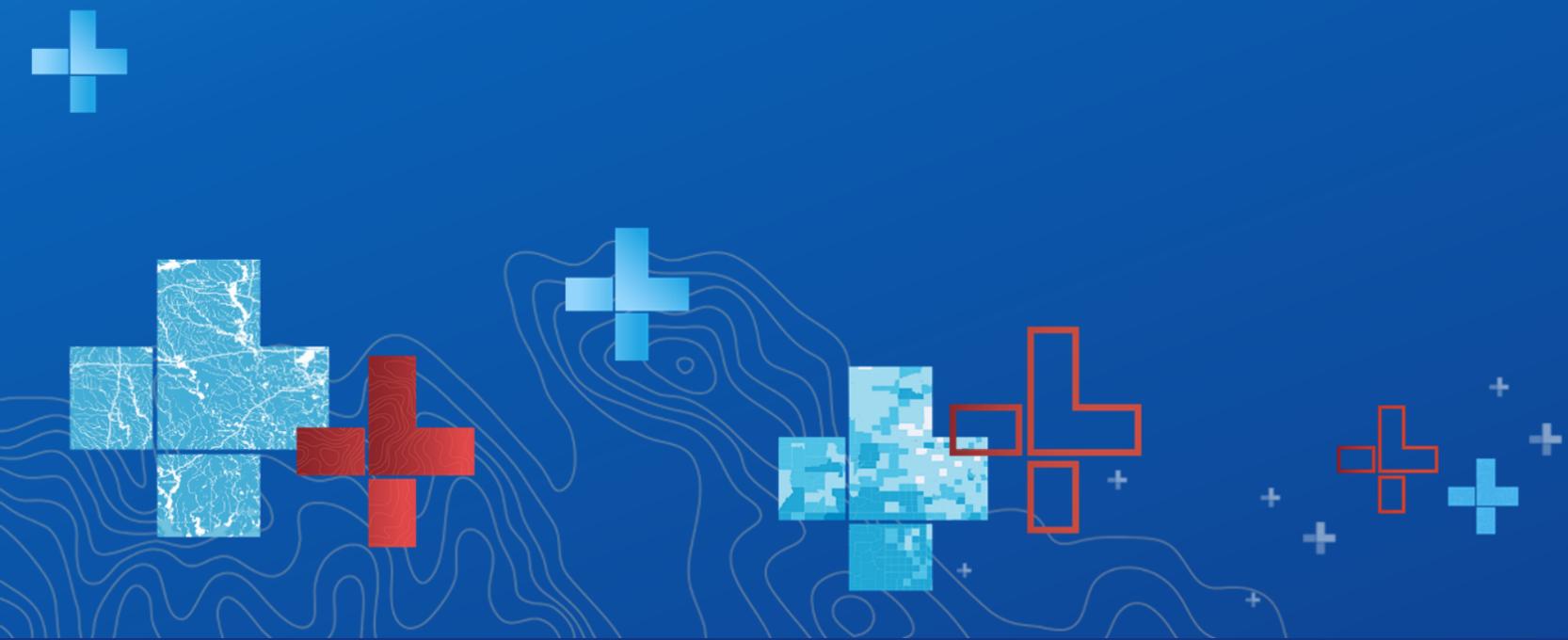


Editor widget

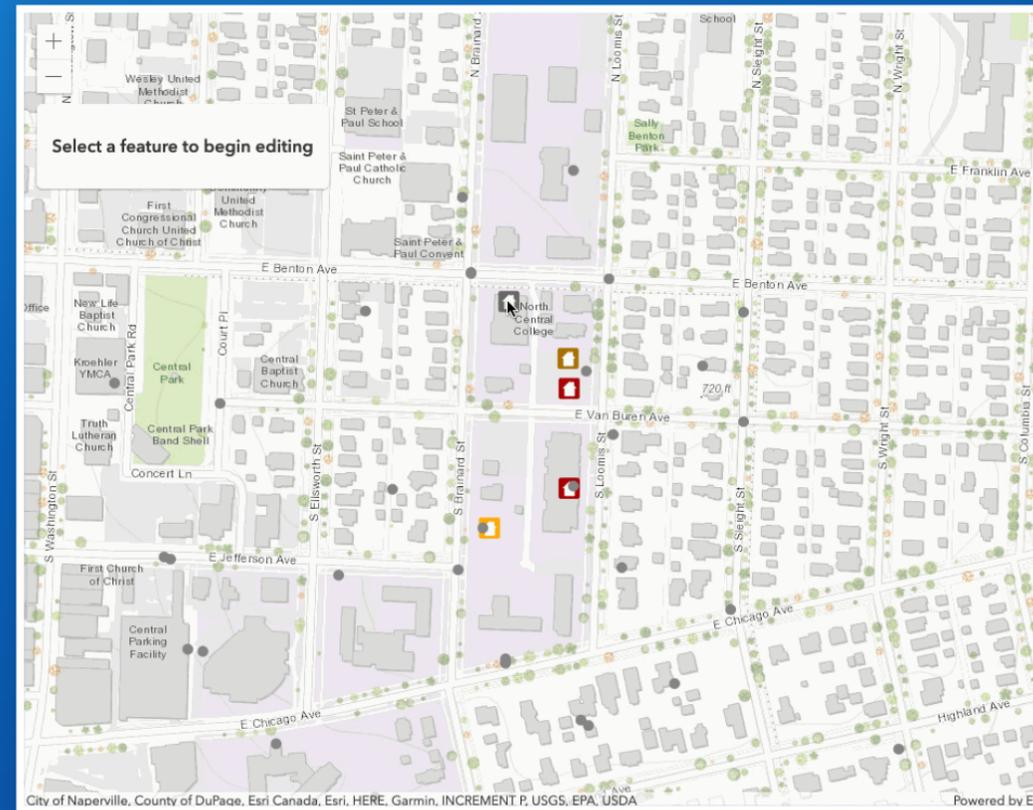


Since v4.11 🚀

Custom Workflows



Form-based



 FeatureForm



FeatureForm



FeatureForm

- Renders input fields from fields & attributes

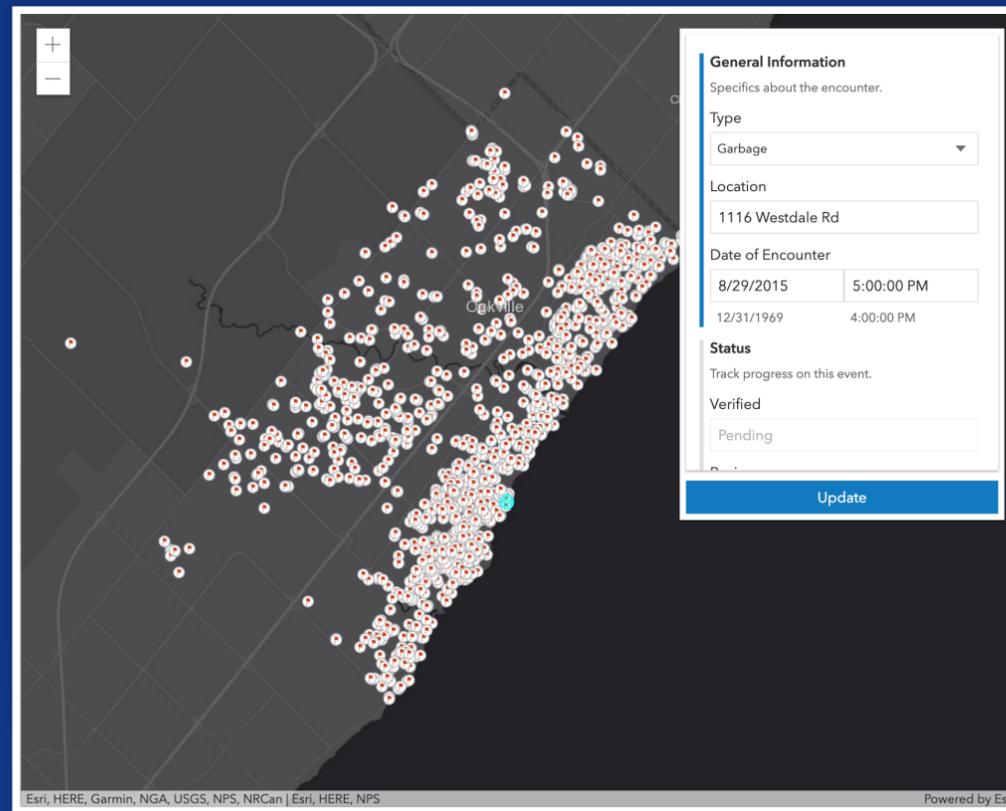


FeatureForm

- Renders input fields from fields & attributes
- Configurable
 - Field order
 - Label/description
 - Groups
 - Visibility expression



FeatureForm Demo



Advanced FeatureForm Demo

 **Report Bike Theft**

Select Location

Use current location for the incident or search to find the address

Enter Information

General bike theft information
Applicable if you have been a victim of bike theft

Was bike locked when stolen?

Did you replace your stolen bike?

Police information
General information on reporting to police

ArcGIS REST JS

ArcGIS REST JS [Guides](#) [API Reference](#) [GitHub](#)

Search the API Reference

Packages

- > [auth](#)
- ▼ [feature-layer](#)
 - [addFeatures](#)
 - [addAttachment](#)
 - [applyEdits](#)
 - [decodeValues](#)
 - [deleteFeatures](#)
 - [deleteAttachments](#)
 - [getAttachments](#)
 - [getLayer](#)
 - [getService](#)
 - [getFeature](#)
 - [queryFeatures](#)
 - [queryRelated](#)
 - [updateFeatures](#)

applyEdits Function

```
import { applyEdits } from '@esri/arcgis-rest-feature-layer';
//
applyEdits({
  url: "https://sampleserver6.arcgisonline.com/arcgis/rest/services/ServiceRequest/Featu
  adds: [{
    geometry: { x: -120, y: 45, spatialReference: { wkid: 4326 } },
    attributes: { status: "alive" }
  }],
  updates: [{
    attributes: { OBJECTID: 1004, status: "alive" }
  }],
  deletes: [862, 1548]
})
.then(response)
```

Apply edits request. See the [REST Documentation](#) for more information.

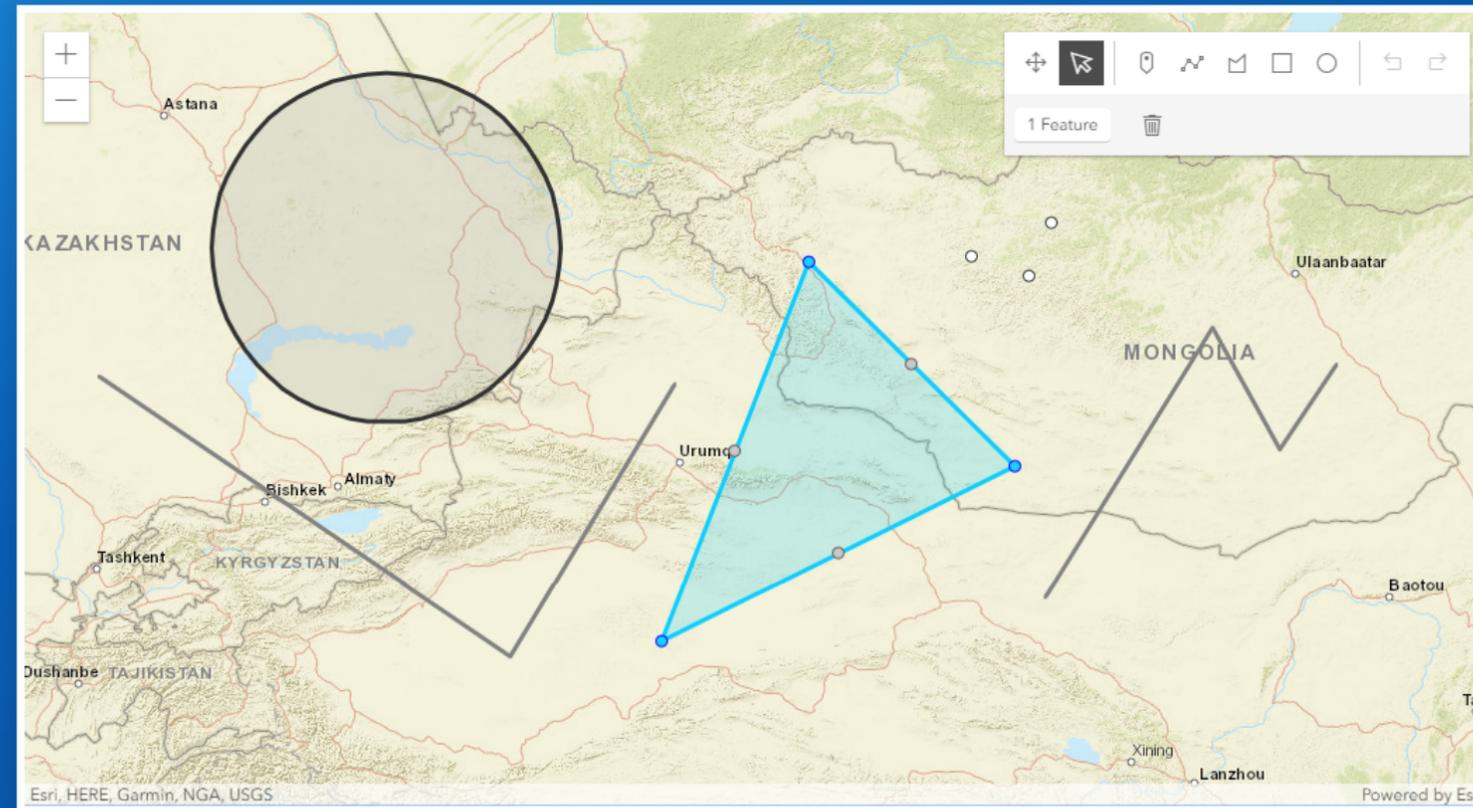


@esri/arcgis-rest-feature-layer

- Use when your app doesn't have a map
- Bring your own UI (i.e. framework / library)



Geometry-based



👉 Sketch

Sketch



Sketch

- Provides ability to manipulate geometries



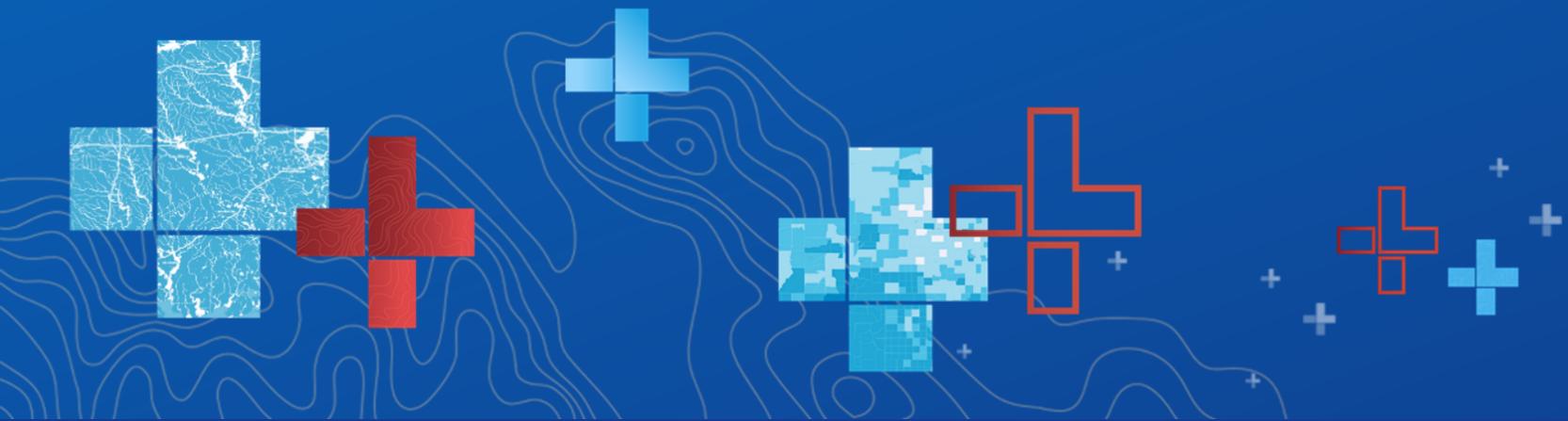
Sketch

- Provides ability to manipulate geometries
- Configurable
 - Tool options (create and update)
 - Internal view listener for activating update workflow



Geometry-based Demos

- Sketch
- SketchViewModel with applyEdits
- Sketch with applyEdits
- Sketch with custom tools
- Sketch with custom snapping and validation



Recap

- Set constraints at the service level
- ArcGIS API for JavaScript
 - Editor widget
 - Custom workflows
- ArcGIS REST JS
 - Already have a framework, no map



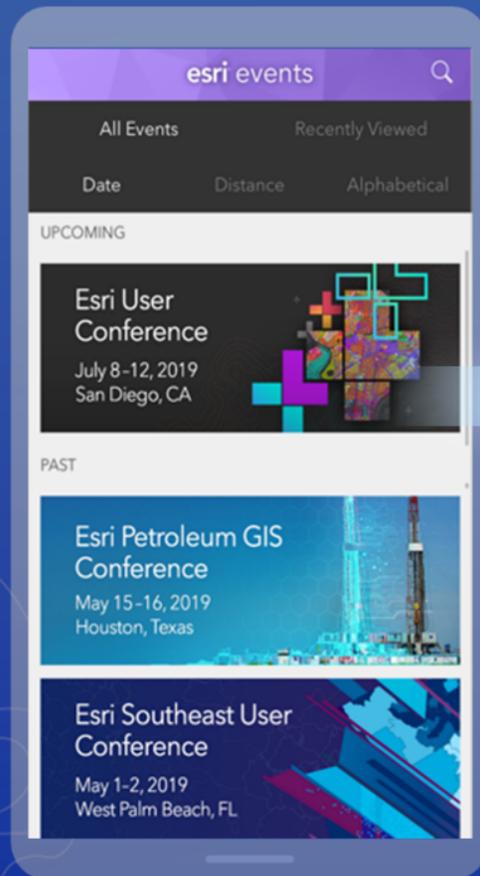
Additional Resources

- JavaScript API SDK
- Arcade - expression language
- ArcGIS REST JS

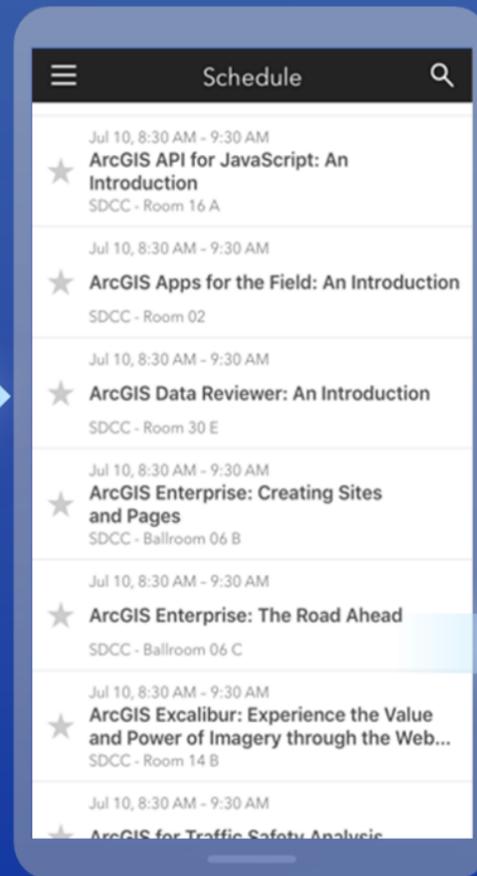


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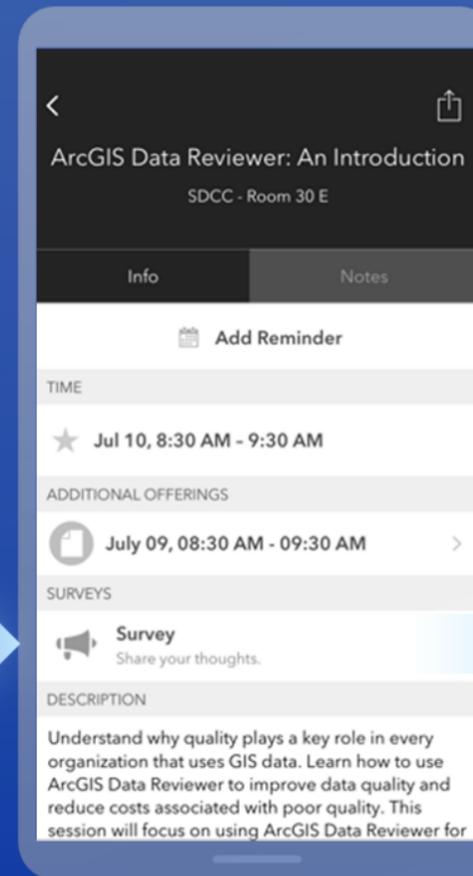
Download the Esri Events app and find your event



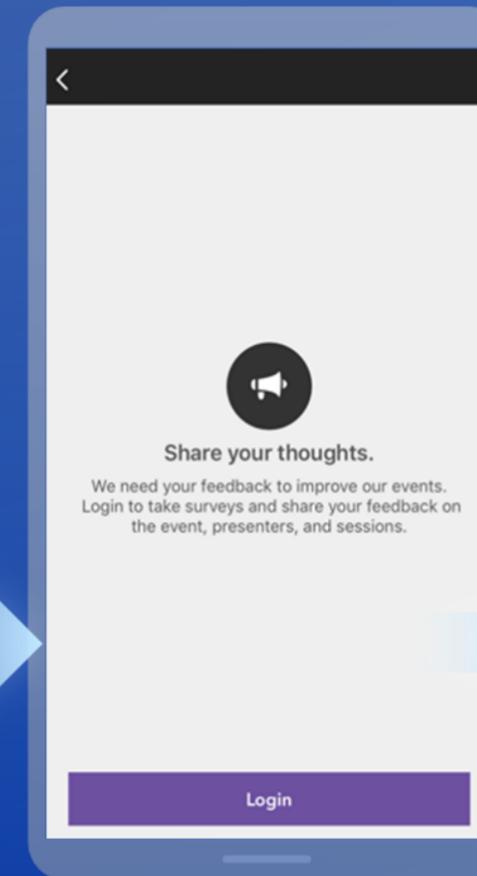
Select the session you attended



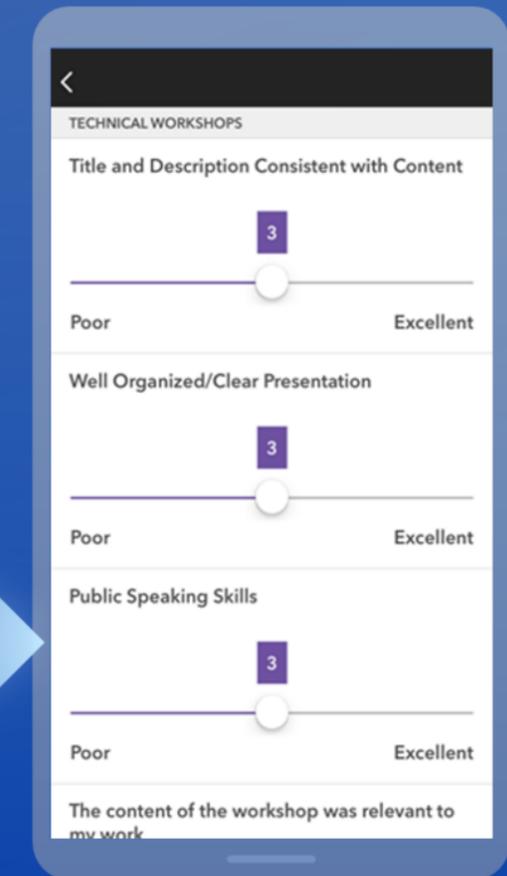
Scroll down to "Survey"



Log in to access the survey



Complete the survey and select "Submit"



Questions?

For example

🤔 *Where can I find the slides/source?*

👉 <http://bit.ly/fdgis20we> 👈





esri

**THE
SCIENCE
OF
WHERE**

