ArcGIS API for JavaScript: Web Editing

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slides: `http://bit.ly/fdgis20we`

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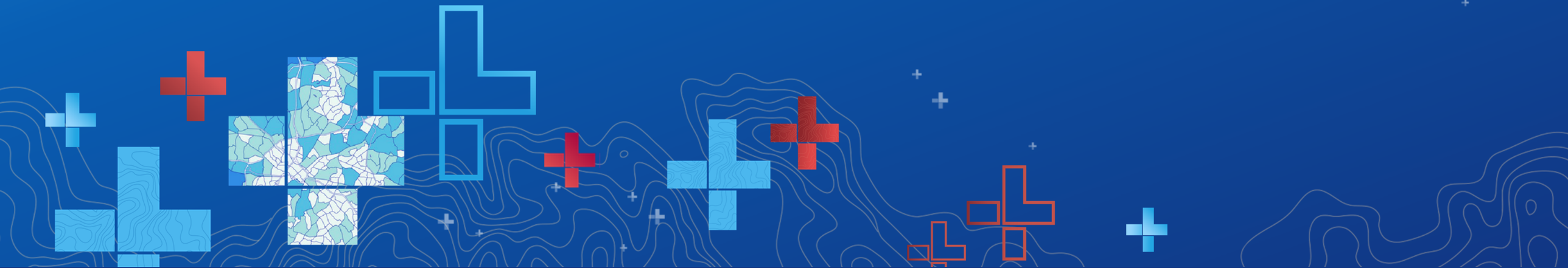


Agenda

- 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

- [x] 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

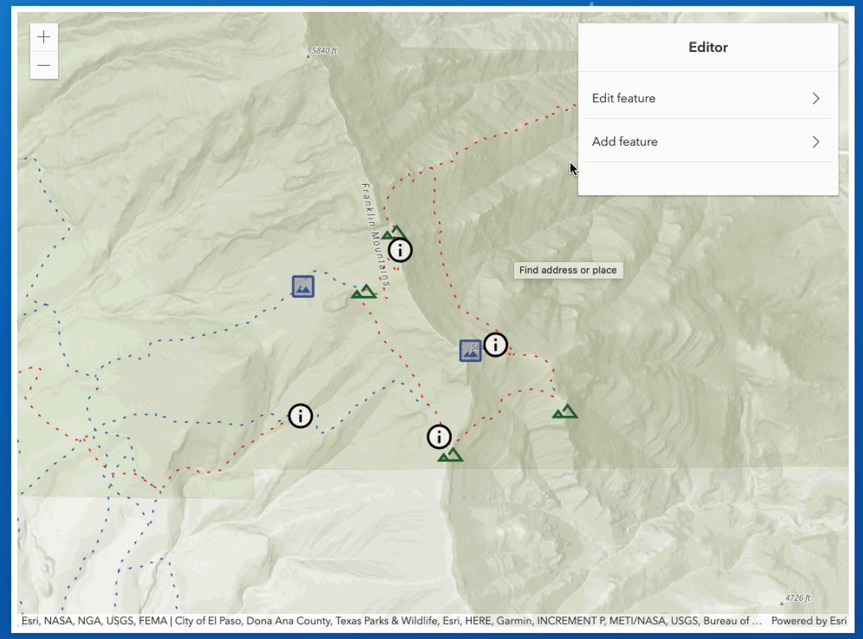
Confgiurable Widgets

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

Granular APIs

- SketchViewModel
- GraphicsLayer
- FeatureLayer.applyEdits
- geometryEngine

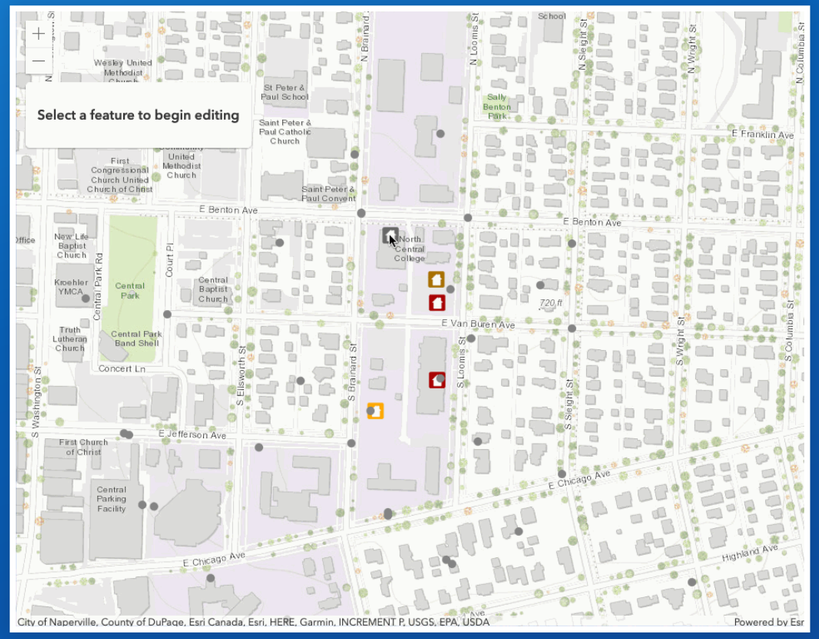
Editor widget



Since v4.11 🚀

Custom Workflows

Form-based



☝ `FeatureForm`

FeatureForm

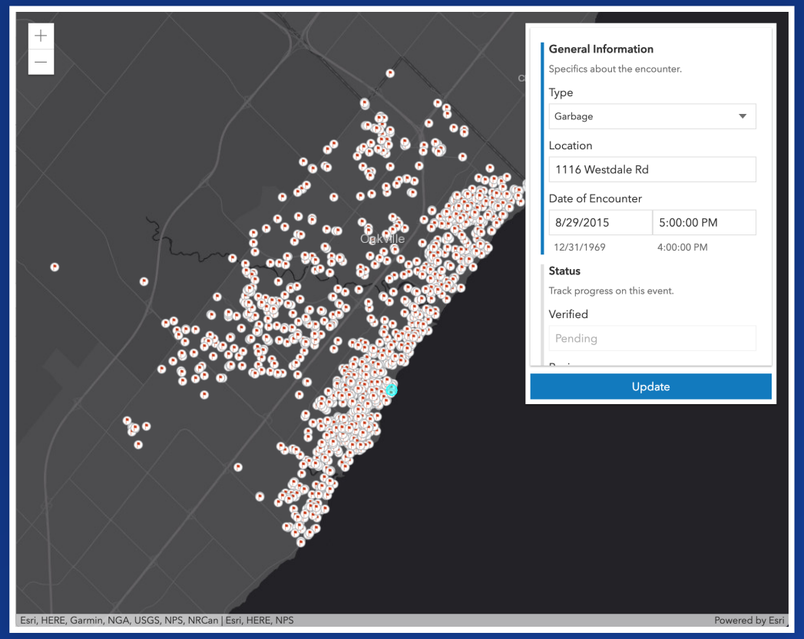
`FeatureForm`

- Renders input fields from fields & attributes

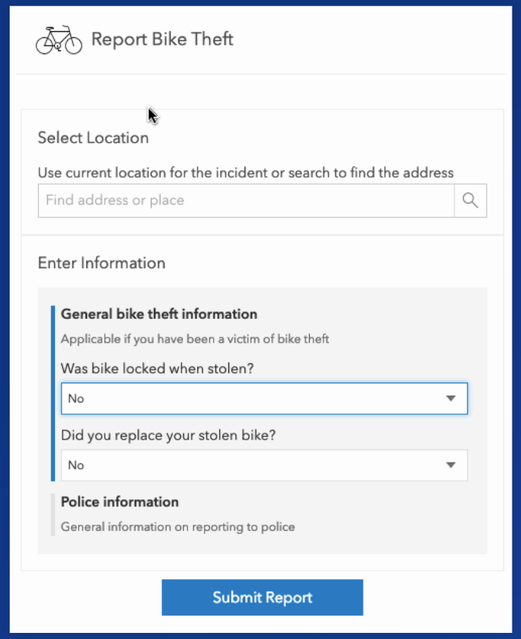
`FeatureForm`

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

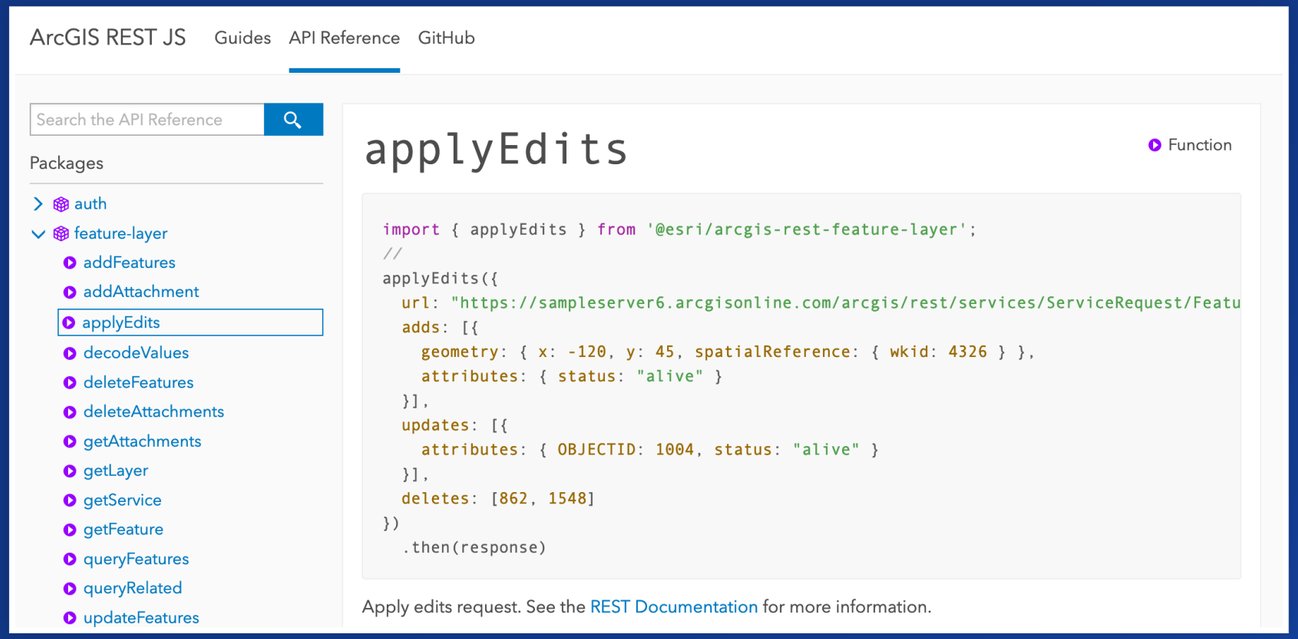
FeatureForm Demo



Advanced `FeatureForm` Demo



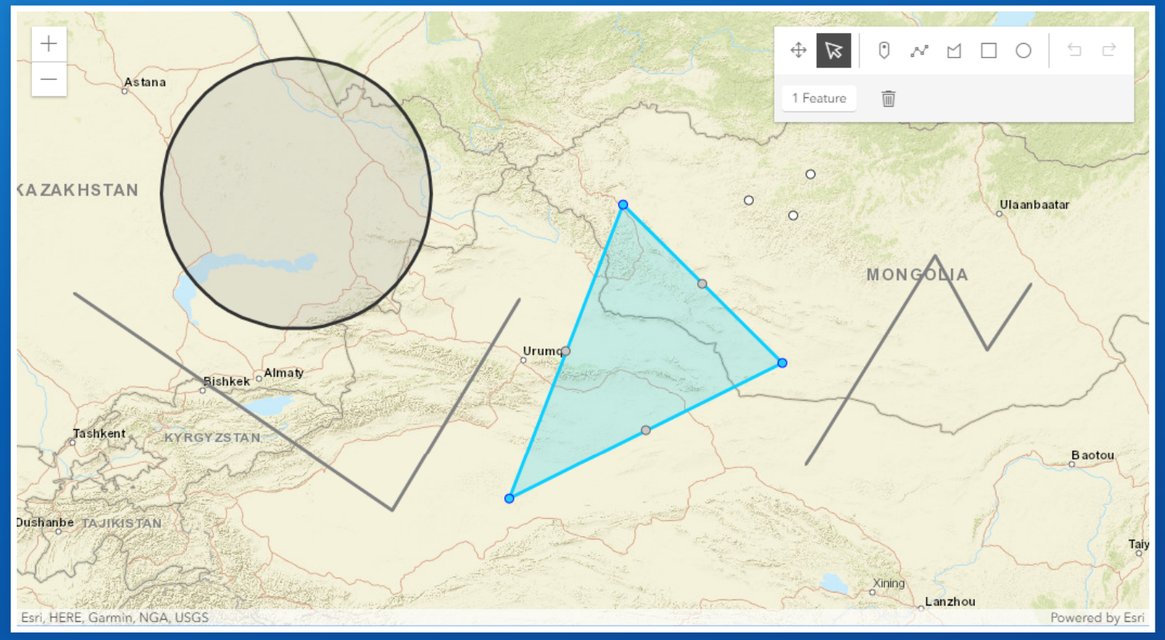
ArcGIS REST JS



@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

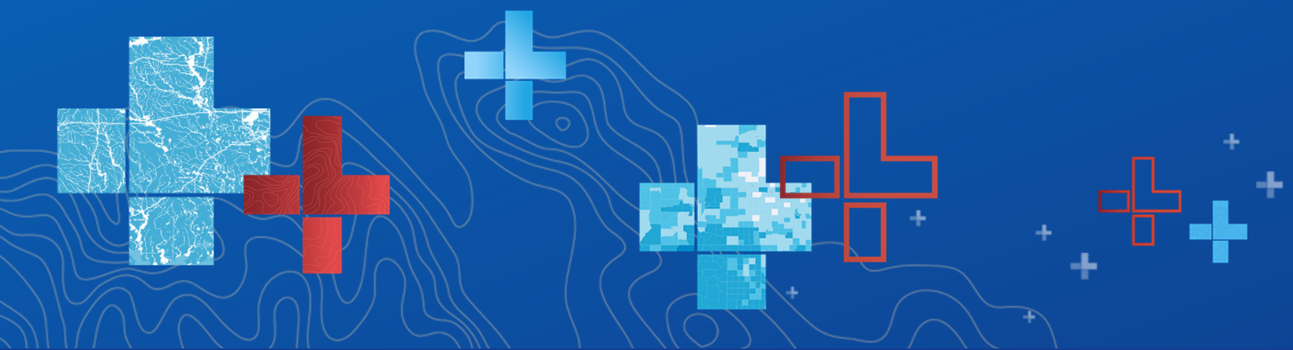
- Provides ability to manipulate geometries

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

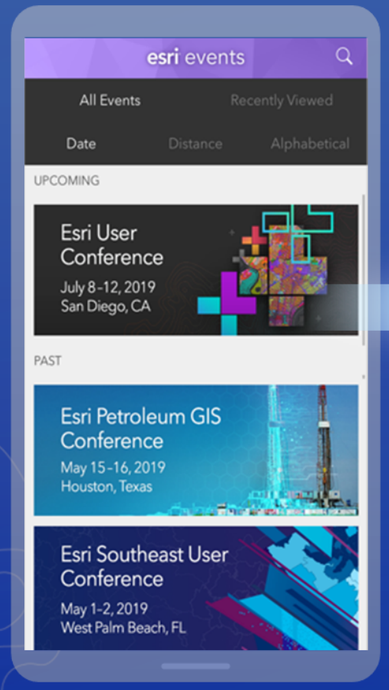
- Set constraints at the service level
- ArcGIS API for JavaScript
  - Editor widget
  - Custom workflows
- ArcGIS REST JS
  - Already have a framework, no map

Additional Resources

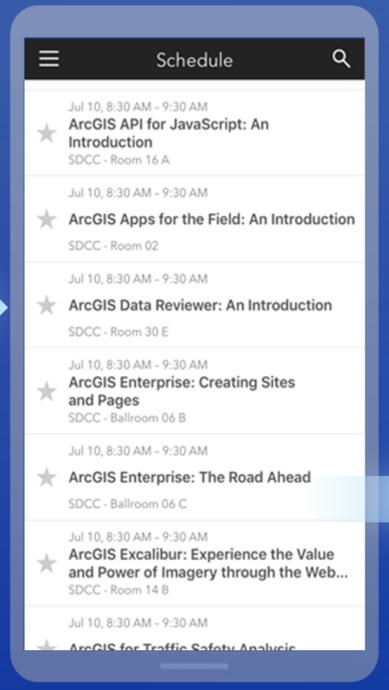
- JavaScript API SDK
- Arcade - expression language
- ArcGIS REST JS

Please Share Your Feedback in the App

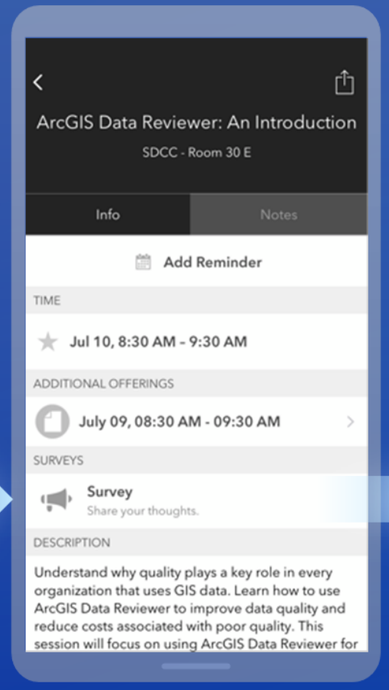
Download the Esri Events app and find your event



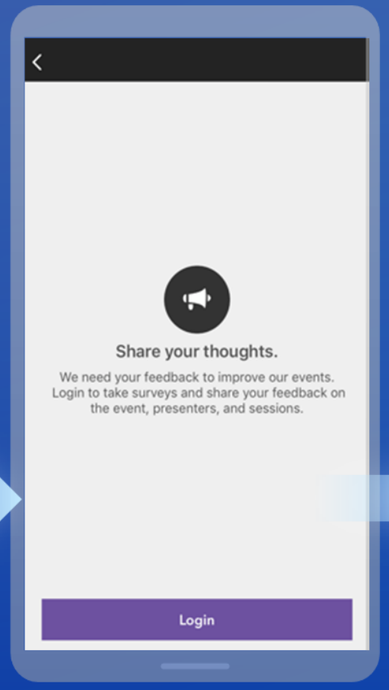
Select the session you attended



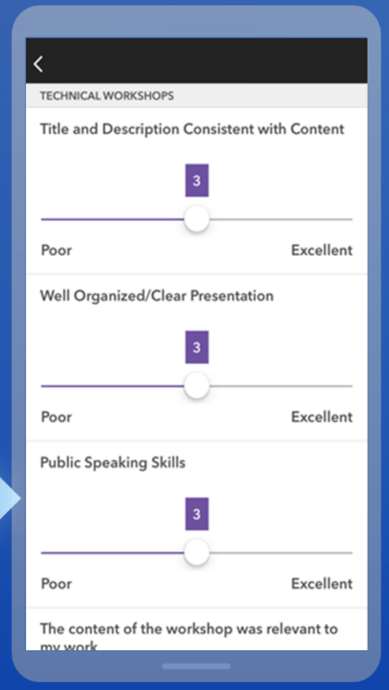
Scroll down to "Survey"



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 👈

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