

Working with Metadata in ArcGIS

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Working with metadata in ArcGIS

- View and edit metadata
- Working with metadata in ArcMap and ArcGIS Pro
- Import and export metadata
- Common metadata tasks
- Road ahead

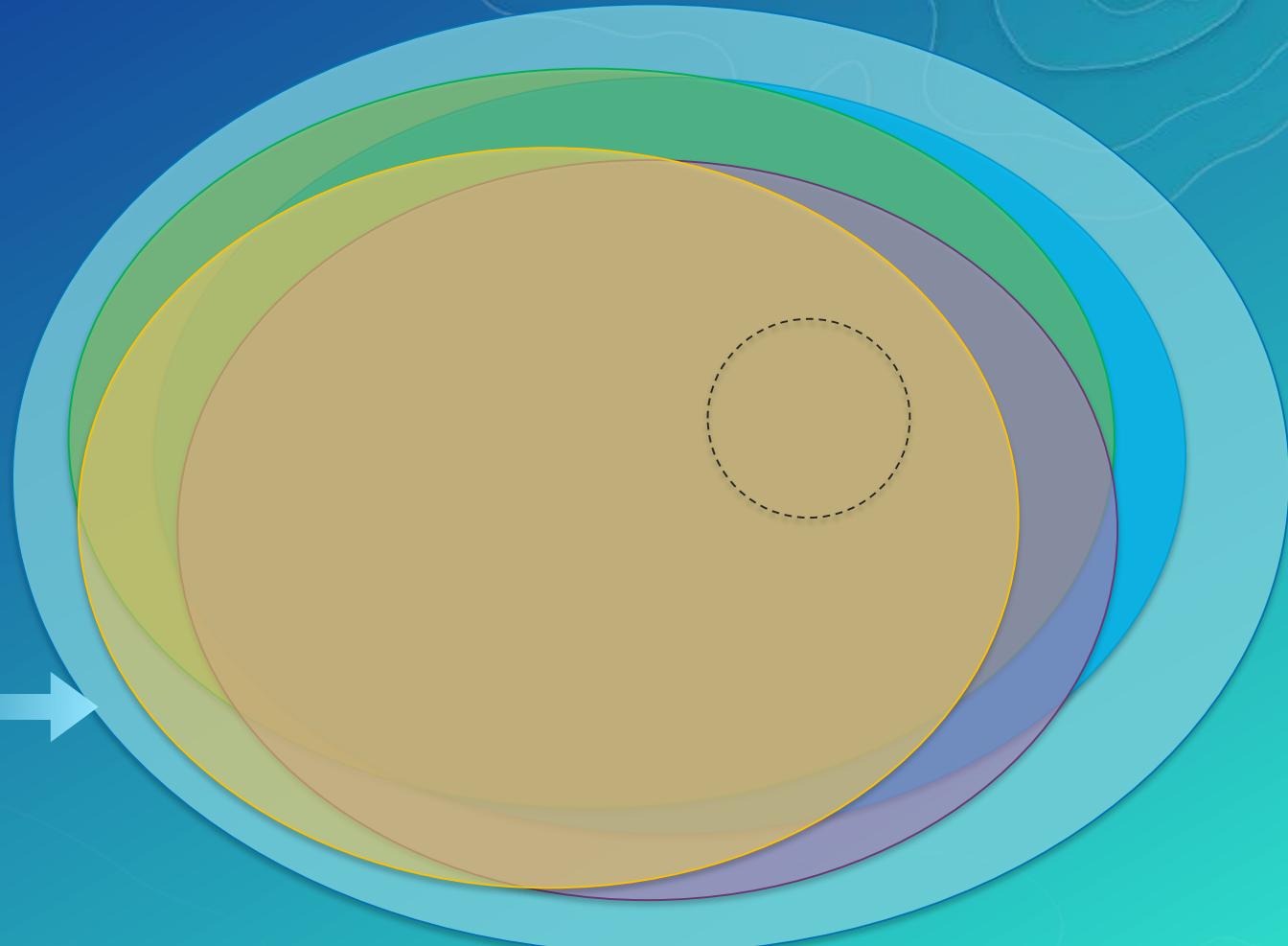
View and edit metadata

- Set your metadata style
- Full, standards-based metadata
- Item properties updated when you view metadata

Set your metadata style

- FGDC CSDGM
- ISO 19139
- INSPIRE
- North American Profile (NAP)
- Item Description (default)

ArcGIS Metadata XML



Set your metadata style

- **Style tailors how metadata is**
 - **Displayed**
 - **Edited**
 - **Exported**
 - **Validated**

FGDC

Edit metadata

- **Improvements in ArcGIS Pro**

- Open many metadata editors at once
- Save changes without closing the editor
- Pick up where you left off
- Edit metadata for ArcGIS Online and ArcGIS Enterprise items
- Map layers have metadata, edit item description content only
- Create thumbnails with context

The background features a stylized, abstract landscape composed of several layers of wavy, organic shapes. The top layer is a bright orange color, while the layers below it transition through various shades of orange, red, and purple. In the bottom left corner, there is a small, distinct area that appears to be a digital or architectural grid, rendered in blue and white, which contrasts with the organic shapes above.

Edit metadata

Edit metadata

- Help topics describe how to create compliant metadata for each metadata style
 - [FGDC CSDGM](#)
 - [ISO 19115/19139](#)
 - [INSPIRE Metadata Directive](#)
 - [North American Profile \(NAP\)](#)

Record geoprocessing history in metadata

- Geoprocessing history recorded
- Entries can be included in metadata processing steps on export
- ArcMap: enabled by default
- ArcGIS Pro: disabled by default

Search metadata in ArcGIS

- Item description content can be indexed and searched
 - ArcMap: configure which datasets to index
 - ArcGIS Pro and ArcGIS Online/Enterprise: automatically index content

Publish items with metadata

- ArcMap maps
 - Maps have metadata
 - Map layers have description and credits only
 - Publish map's metadata
- ArcPro maps
 - Maps and map layers have metadata
 - Publish map or map layer metadata
 - Only item description content is published

Update metadata programmatically

- ArcMap
 - Access and update full metadata content with ArcObjects .NET
 - Use geoprocessing tools
 - Access, import, and export metadata
 - Update metadata using provided XSLTs
- ArcPro
 - Access and update item description content with Pro SDK

Metadata Support in ArcGIS for Desktop

	ArcMap	Pro
Metadata styles for geospatial metadata standards	✓	✓
Display and edit full metadata	✓	✓
Map layers have metadata	✗	✓ (limited)
Publish map with full metadata	✓	✗
Manage metadata programmatically	✓	✓ (limited)
Manage metadata with geoprocessing tools	✓	✗
Import and export metadata	✓	✗
Customize the metadata editor	✓	✗

Metadata in ArcMap

Import metadata to and export metadata from ArcGIS platform



"Save As" with ArcGIS metadata

- Save As metadata template
 - Without synchronized properties
- Save As XML file
 - Exact copy
 - Without machine names
 - Without local and network file paths and geoprocessing history
- Save As HTML file
 - Use outside ArcGIS platform

Update metadata programmatically

- Access metadata XML via geoprocessing tools or ArcObjects SDK
- Update ArcGIS metadata XML with Python scripts
- Update metadata with XSLTs
- Copy updated metadata back to the item

Copy metadata to another Desktop item

- Use a **metadata template**
- Quick start by **copying dataset content**
- Click **Import** button
- Use **FROM_ARCGIS import option**
- **Metadata content copied without losing thumbnail, properties, geoprocessing history**

Copy metadata to a portal item

- Save a copy of metadata to an XML file without all file paths
- Access the portal item in the browser
- Copy the content to the online item by opening the file in the portal metadata editor



Copy and
update
metadata

Which metadata geoprocessing tool to use

- Use the right geoprocessing tool for the job
 - Importing metadata
 - Exporting metadata
 - Validate metadata

Road Ahead - Near Term (2017)

- Move Pro closer to equivalency with ArcMap
 - Importing and exporting metadata
 - Publish items with full metadata
 - More capabilities for accessing and managing metadata via the Pro SDK
- Improve metadata support for map layers in Pro
 - Reference data source's metadata
 - Optionally import data source metadata to the layer
 - Display and edit full metadata for the layer

Road Ahead - mid term (2018)

- ArcGIS Metadata Toolkit for Pro (immediately following Pro 2.1)
- Support scripting of metadata workflows in Pro
- Extend import and export capabilities for compatibility with ISO 19115-1/ISO 19115-3
- Metadata editor usability improvements
- Common metadata editing experience for the ArcGIS platform

Road Ahead - long term

- Enhance the ArcGIS metadata editor to support concepts for updated ISO standards
- Usability improvements in the ArcGIS metadata editor
- Leverage organizational metadata settings in Pro
- Controlled vocabularies

Working with Metadata in ArcGIS

- Create standard-compliant metadata
- Search and publish metadata
- Import from and export to standard XML formats
- Use geoprocessing tools to access and update metadata
- Reference Help topics

Upcoming metadata sessions and meetings

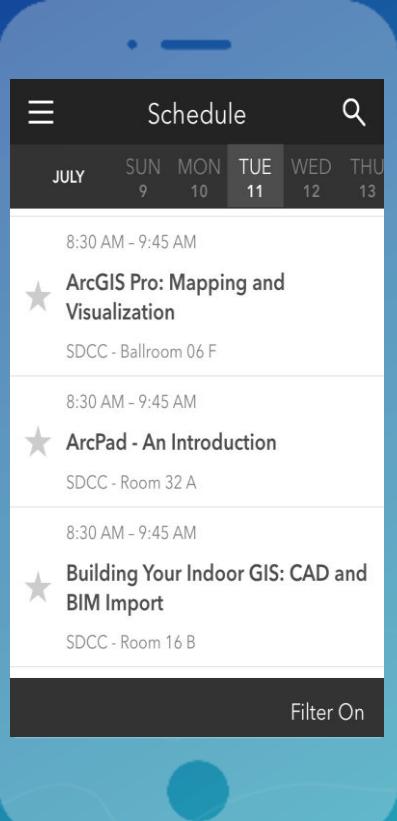
- **Metadata Users Group meeting**
 - Wed July 12, 5:30pm - Room 28 A
- **Technical Workshop: Working with Metadata in ArcGIS**
 - Thurs July 13, 10:15pm - Room 15 B
- **Demo Theatre: Working with metadata in ArcGIS**
 - Thurs July 13, 11:30 - Esri Showcase: Interoperability and Standards Theaterette

Please Take Our Survey on the Esri Events App!

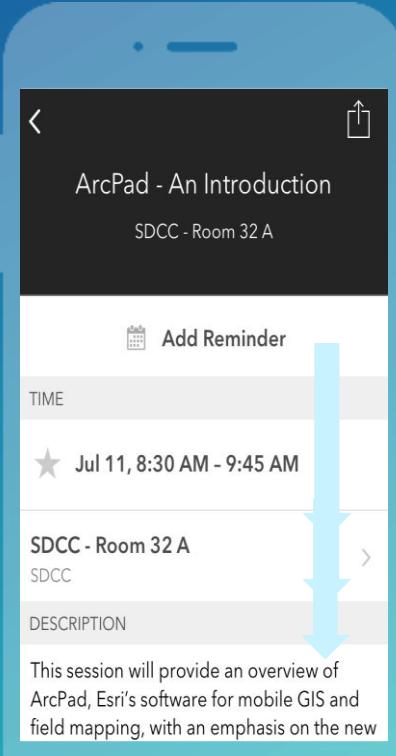
Download the Esri Events app and find your event



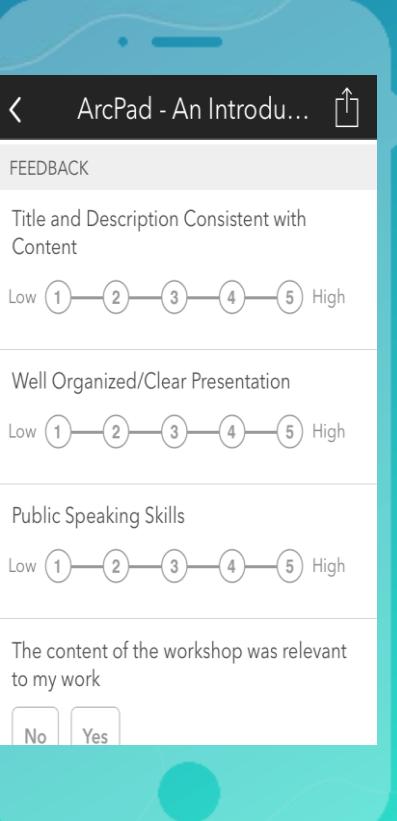
Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"





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SCIENCE
OF
WHERE*