ArcGIS Pro: What’s New in Editing and Data Management

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ArcGIS Pro Overview
ArcGIS Pro

- New Desktop Application
- Part of ArcGIS for Desktop
  - ArcMap
  - ArcCatalog
  - ArcScene
  - ArcGlobe
  - New ArcGIS Pro
ArcGIS Pro Highlights

- 2D and 3D in One Application
- New Fast Display
- Improved User Experience
- Cloud Ready
- Modern and Sustainable Architecture
- 64 Bit, Multi-threaded, Responsive
ArcGIS Pro Highlights

- Project Centric Workflows
- Multi-view and Multi-layout
- Editing in 2D and 3D
- Simple Search and Query
- Customization
  - Task
  - Python
  - .NET API
Demo – Editing with ArcGIS Pro
User Experience and Workspace Management
Editing Basics

- Always editing all layers you have permissions for
  - Multiple workspaces edited at the same time
  - Contents pane can be used to disable individual layers
- Tools available in multiple places (toolbar, modify pane, context menu)
  - Different users require different ways to access tools
- Tools always enabled
  - User prompted to make or update a selection if required
Accessing Tools

- Tools Gallery and Modify Pane can be updated
Editing Options

Options

- Project
- Application
- Customize the Ribbon
- Metadata
- Display
- Navigation
- Selection
- Units
- Map and Scene
- Geoprocessing

Editing

- Raster and Imagery

General
- Show the editing toolbar at the bottom of the map
- Enable double-click as a shortcut for the Finish button
- Finish

Session
- Automatically save edits
  - Time interval (minutes) 10
  - Number of operations 30
- Save edits when saving project
- Show dialog to confirm save edits
- Show dialog to confirm discard edits
Snapping

- Snapping is at the map level
- Options always accessible in status bar
- All layers can be snapped to by default
  - Use List by Snappability to turn individual layers on and off for snapping
Task Management

• Streamline workflows for efficiency
• Implement best practices
• Create interactive tutorial steps
• Create workflows with:
  - Designer
  - Recording option
Demo – User Experience and Workspace Mgmt.
Feature Templates
Feature Templates

- Create new features with Feature Templates
- Use Properties dialog to define your templates:
  - Name
  - Description
  - Tags
  - Tools to use
  - Default attribute values
  - Attributes to prompt for
- Enter temporary overrides with Active Template pane
Group Templates

- Create multiple features with a single sketch
- Examples:
  - Pole at every vertex of electrical line
  - Address point at center of building
- Options depend on primary template
  - Polygon – add other polygons, lines, and points
  - Line – add other lines and points
  - Point – add other points (can use line sketch)
Demo – Feature Templates
Map and Layer Authoring
Authoring Maps & Layers

• Author maps and layers for use across your organization
  - Consistency for all editors
  - Lessen learning curves

• Important aspects for editing
  - Feature templates and group templates
  - Symbology
  - Snapping

• Author additional parameters for 3D editing
  - Elevation
  - Extrusion
Z Aware Layers

- Layers can be defined to support Z (elevation)
  - Create new feature class that are Z aware
  - Convert existing 2D feature classes to 3D feature classes
  - Import 3D vector data from other formats (e.g., CAD, KML, etc)

- 2D layers can still participate in 3D scenes
  - Draped on the ground or surface
  - Visualized with height using extrusion
Layer Elevation & Scene Surfaces

- **3D layers display at different elevations each with unique behavior/capabilities:**
  - On the ground
  - Relative to the ground
  - At an absolute height

- Elevation surfaces enable you to view layers on, above, or below them

- 2D layers can only be set to the ‘on the ground’
3D Symbols

- All point features can be symbolized with 3D models
  - Browse and choose in gallery
  - Use your own 3D models

- Change size through attribute edits

- Preset layers provide out of the box 3D symbols for key layer types:
  - Trees
  - Ground
  - More to come...
Demo – Map and Layer Authoring
Data Management
Data Management

• Design Views for Data Modeling
  - Fields
  - Domains
  - Subtypes

• Tabular arrangement
  - Familiar, spreadsheet-like experience
  - Display all relevant info all at once
  - Copy/paste within the view and between views
Demo – Data Management
Post ArcGIS 10.3

• What is not in the first release?
  - Land Records
    - Parcel fabric
    - Topology
    - COGO
  - Utilities Networks
  - Annotation
  - Dimensions
  - Spatial Adjustment
ArcGIS Pro Beta Program

• Be a current ArcGIS user
  - Desktop
  - ArcGIS Online Organizations

• Beta Community Access controlled by
  - ArcGIS Online account

• Pro.ArcGIS.com\en\pro-app
Thank you...

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Questions?