ArcGIS Pro Tips and Tricks

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Agenda

ArcGIS Pro Tips and Tricks

- Resources
- Application
- Map Exploration
- Map Authoring and Sharing
- Data Management and Editing
- Geoprocessing and Automation
Learning Resources

• Get Started with ArcGIS Pro
  - 15 Quick-start tutorials
• esri.com/training
  - web courses, videos and training seminars
• learn.arcgis.com
  - 11 ArcGIS Pro lessons
• 3 books plus a 4th on the way
ArcGIS Blog
https://blogs.esri.com/esri/arcgis/feed

Application Tips

Demonstration
Start Pro with an existing Project

- Windows 10
  - Show recently open items
- Right-click on ArcGIS Pro
- Select a Project
- Can remove from list
Start screen

ArcGIS Pro

Open a recent project

- MyProject
- Assess_Analytics...
- ArcGIS

- Sales Analysis
- Assessment Visualization
- Getting the Most Value from your ArcGIS
- SonomaCo

- Open another project

Click here to view Backstage (Options)

Right-click to Remove Projects from list

Create a new project

Select a project template

- Blank
- Global_Scene.aptx
- Local_Scene.aptx
- Map.aptx

- Select another project template

Not signed in
https://www.arcgis.com/Sign.in
Important Licensing e-mail

- Sent to Primary Contact
- Activate your ArcGIS Online Subscription
- ArcGIS Pro Licenses can be added
Licensing

• Project > Portals (Licensing icon)
  - Create custom Role for non Admins to manage

• Configure Licenses
  - Set at Startup
  - Project > Licensing

• Go Offline
  - Take License Offline
  - Set Alias for machine
Read-Only Projects
Backstage
Options that establish how Pro works

• General
  - Default GDB, Toolbox, and Folder locations
  - Be aware setting Enterprise GDB as Default make it target for GP output, Map Notes, etc.

• Map and Scene
  Basemap, New layers visible, and Spatial Reference

• Navigation
  - Roller wheel behavior and Transition Time

• Selection
  - Display interactive selection graphic

• Geoprocessing
  - Allow geoprocessing tools to overwrite existing datasets
  - Raster and Imagery

• Raster Dataset > Use world file to define the coordinates of the raster
Favorites
Catalog pane

- Folder, database, server connections
- A-la cart or to every new project
Contents Pane – Search and Filter

**Search**
- Layers filtered by Search string (4k)

**Filter Contents**
- All
- Visible
- Not Visible
- Feature layer
- Group layer
- Raster
- many more…
Map Exploration Tips
Demonstration
Map Exploration

- Link Maps (and/or Scenes)
- Bookmarks from any map available for other maps/scenes
- Explore tool is Identify, pan, zoom.
  - How to control what you are Identifying
    - Disable Popups on layers you don’t want to Identify
    - Change the behavior of Explore tool

- Add Layers as Locators
WSYWIG - Demonstration
What you see is what you get

- Table window filtered by Time, Range, and Visible Extent
  - Highlighted Selected
- Charts dynamically update with Time and Range
- Legends on Layout show visible features
- Printing export (transparent symbols)
Data Management and Editing Tips

Demonstration
Data Management

• Fields can be copy/pasted
• Reorder fields not permanent (view only)
• Rename fields in tables/layers that you own in the database
• Versioning accessed via Database View and selected Database Connection
Editing

- **Editing Grid**
  - Use Editing Grid in built environments (show how to move, scale, and rotate

- **Snapping**
  - Units, colors, etc.

- **Disable Feature Cache when editing Feature Services**

- **Map Topology**
  - Edge editing (close gaps) within same layer and with other layers

- **Group Feature Templates**
  - Add features to multiple layers with a single sketch
Map Authoring and Sharing Tips

Demonstration
Add Data – Has many Options

- Add Data is one many Split Controls
  - Top applies default filters
  - Bottom exposes additional Data types
Create and edit Annotation

- Upgrade Annotation feature classes
- Convert Labels to Annotation
  - Feature Linked Annotation
- New Annotation Editing experience
- Symbol Substitution
Save Maps and Scenes

- Use in other projects
- Backup
- Share with others
Layouts

- Element snapping

- Guides

- Reshape map frame
  - Insert tab
Save Layouts

- Use in other projects
- Backup
- Share with others

* References Map Frames if available (may need to add Maps and/or Scenes to project)
Analysis and Automation Tips

Demonstration
Analysis

- Customize Analysis Gallery
  - System tools
  - Scripts
  - Models

- Geoprocessing History
  - Logs processing
  - Drag/drop onto Model Builder
  - Right-click Copy Python command
    Paste into Python window or IDE

```python
arcpy.management.ApplySymbologyFromLayer(
    "Minus_2012 Mosaic Dataset_2008 Mosaic Dataset",
    "Difference.tif",
    "VALUE_FIELD # #"
)
```
Model Builder

- **Group Elements**

- **Lock Elements**
  - Ignored by Auto Layout
Raster Functions

- Search/Filter
- Select inputs in Contents
- Apply to Selected
Extending ArcGIS Pro

- Configure UI through settings, and workflow through Tasks
- Automate using geoprocessing and Python
- Extend with the Pro SDK
Automation with ArcPy


Tutorial: Getting started with arcpy.mp

- Tutorial setup
- Python window
- Reference an existing project
- Add a layer file to the map
- Export a layout to PDF
- Related topics

Complexity:
Beginner

Data Requirement:
Use your own data

Goal:
The goal of this tutorial is to introduce you to the basics of arcpy.mp. You will use Python to connect to a project, reference project items, and export a layout to PDF.
Graduated Colors Renderer Code Sample

Automation Demonstration

- **ArcPy**
  - Create simple script to set default queries
  - Save as script and include in Project Toolbox
  - Modify script to accept an argument (input parameter)
    - `NBRHD = arcpy.GetParameterAsText(0)`
  - Add Script Tool to Analysis Gallery
- **Tasks**
  - Create a Task that includes Script
  - Add step to Zoom To Layer
- **Package Project in Project Template for distribution**
Summary

- Thank you for attending!
- Many Technical Workshops and Demo Theater Presentations on ArcGIS Pro
questions & answers