ArcMap: Tips and Tricks

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Agenda

• Tips and Tricks for:
  • Managing the Interface
  • Mapping and Editing
  • Geoprocessing
  • Customizing

This session is geared mainly to the beginner ArcGIS Desktop user
What is ArcMap?

- Comprehensive map authoring application
- Used for all map based tasks
  - Mapping and editing
  - Query and analysis
  - Creating graphs, reports, and output
Managing the ArcMap 10 Interface

Miriam Schmidts
Demonstration: Managing the ArcMap 10 Interface
Default geodatabase and Home folder

- **Default Geodatabase**
  - Contains the source data for most layers in a map document
  - Faster navigation in the Catalog window
  - Sets the Current and Scratch Workspace in geoprocessing environment

- **Home folder**
  - Contains the current map document
ArcMap Interface

• Dockable windows, e.g.
  - Catalog
  - Search
  - Table of contents

• ArcMap Options, e.g.
  - Show getting started dialog
  - Make newly added layers visible by default
  - Make relative paths the default for new map documents

Hold down CTRL key to prevent windows without docking
Mapping and Editing

Miriam Schmidts
Demonstration: Visualization and Editing
Relative paths in ArcMap

- Layer source data stored relative to the MXD
  - Instead of absolute path  C:\Data\Base.gdb\Streets
  - Relative path  ..\..\Data\Base.gdb\Streets
  - Cannot span disk drives
Shortcuts for navigating

- **Z** Zoom in
- **X** Zoom out
- **V** Pan
- **B** Continuous Zoom/Pan
  - Dragging left mouse button zooms in/out
  - Dragging right mouse button pans
- **<** Previous extent
- **>** Next extent

Rolling the mouse wheel also zooms in and out
ArcMap Edit sessions

- For one workspace at the time
  - Workspace = geodatabase or folder (e.g. of shapefiles)
- For one data frame at the time
- Right-click a layer to start editing in a workspace
- Create feature templates manually for new layers
Feature Templates

- Define information to create a feature
- Automatically created
  - Beginning of first edit session
- Create manually
  - Copy and update properties
  - Delete
- Saved in .mxd, .lyr, layer or map package
The Focus is on the Map
Geoprocessing

• Quick access to the Tools you need
  - Customizable Menu
  - Search

• Python is the way automate your work

• More efficient processing
  - Up to 15x faster
  - Background execution
Performing multiple conversions

Model iterators

Batch geoprocessing tools
- Tools have batch capability to convert many elements at once
- Cannot assign wildcard or feature type filters as with iterators
Model Builder

- Explore data for wastewater treatment plant site selection analysis
- Transform datum from NAD 27 to NAD 83 using a model iterator
Create Map Books and Atlases

- Part of ArGIS
- ArcMap: Data Driven Pages
  - Single layout with an Index
  - Multiple pages based on feature extents
  - PDF Support

End User Tools and Scripting Support
Automate Mapping Workflows

- New Python scripting (arcpy.mapping)
- Manage large numbers of map, layers and datasets
- Save time doing repeatable task
- Expose as a Geoprocessing Services

Updating Symbology

Changing Data Source

Multi-page PDF

Python Script

Title Page

Overview Map

Map Pages

Report
Image Analysis Window

- Quick Access and Display
- Search and Discovery
- Metadata Access
- Temporal Query
- Image Analysis Window
  - Enhancement
  - Interpretation
  - On-The-Fly Processing
- Image Classification Tools
- Authoring for Serving
New Window For Image Tools
Customizing

Jorge Ruiz-Valdepena
Configurable Desktop

Configure the Applications
No Code

Python Scripting for automation and other Python modules
Configurable Desktop
Addin For ArcGIS Desktop: Find / Download

Presentation AddIn for ArcGIS Desktop

ArcGIS Resource Center

Presentation AddIn for ArcGIS Desktop

Description

This AddIn for ArcGIS 10 allows you to create and deliver presentations directly inside of ArcMap. This AddIn is similar to the presentation capability recently added to ArcGIS Explorer.
Addin For ArcGIS Desktop: Install it
Addin For ArcGIS Desktop: Use it
Summary

- Managing the Interface
- Mapping and Editing
- Geoprocessing
- Customizing
Additional UC sessions and Resources

- Making Beautiful Maps
- Editing Tips and Tricks
- Building Map Books
- Python – Scripting for Map Automation

Resources:

- *GIS Tutorial 1: Basic Workbook, Fourth Edition*
- *GIS Tutorial 2: Spatial Analysis Workbook, Second Edition*
- *GIS Tutorial 3: Advanced Workbook*
Thank you!

Please fill out and submit your evaluation form

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