Managing and Editing Annotation
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• Introduce different types
• Manage geodatabase annotation properties
• Explore creation options
• Demonstrate editing methods
• Discuss advanced techniques
• Questions
Agenda

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Annotation

- User-generated
  - Appearance
  - Behavior
  - Control
  - Use

- Can create from labels

- Two types
  - Map annotation
  - Geodatabase annotation
    - Spatially indexed

- Licensing
Map document annotation

- Both text and graphics
- Stored in the map document
- Appropriate when:
  - Small amount of text
  - Text is used only in a single map
Managing map document annotation

• Manage from:
  - Draw toolbar
  - Data Frame Properties

• Organized using annotation groups
  - Automatically generated from label classes
  - Toggle groups of text
  - Associate with a layer
  - Active annotation target

• Use Draw toolbar to create and edit
Geodatabase annotation

- Feature class
- Reuse
- Choose from
  - Standard
  - Feature-linked
Tip: Re-link previously feature-linked annotation

• What to do if:
  - Feature class becomes corrupt and needs to be recreated
  - Relationship class is lost

💡 HowTo: Re-link previously feature-linked annotation

Article ID: 30509
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Reference scale

- Element sizes
- Text scales
- Required

Zoom with reference scale
Set reference scale
Symbol collection

- Named text symbols
- Maximizes performance
- Reduces storage size
- Promote standards
- Add or delete
- Symbol ID
Fields

• Displays information
  - Text string
  - Appearance
  - Placement
  - Status
  - Coded value domains

• Queries
  - Quality control
  - Batch updates

FAQ: What do the different fields in an annotation feature class mean?

Article ID: 30329
Override symbol properties

- Edit properties of individual features
- Maintains link
- Substitute values
  - Placement
  - Font
  - Word spacing
  - Leading property
- Text formatting tags
- Inline storage

HowTo: Determine which symbol properties are overridden in the annotation feature class
Problem: Too much inline annotation

• Solution: Assign new SymbolIDs
  - Create new, temporary fields to hold overrides
  - Copy values
  - Calculate new SymbolIDs
  - Return overrides to original fields

• Result: Annotation now uses a SymbolID and maintains overrides
Problem: Red bounding box

• Causes:
  - Symbol ID does not exist in target feature class
  - Symbol ID has been deleted

• Resolution:
  - Create new symbol and calculate IDs
  - Calculate IDs to use an existing symbol
Annotation layer

- Read-only
- Symbol substitution
Demo: Symbol Collection

Substitution
Overrides
Annotation classes

- Subgroups
- Properties
- Performance
Additional properties

Reference Scale

Specify the reference scale for the annotation.

If you zoom in to a larger scale than the reference scale, the annotation will appear larger, and if you zoom out to a smaller scale the annotation will appear smaller.

Reference Scale: 1:50,000
Map Units: Meters

Editing Behavior

- Require symbol to be selected from the symbol table
- Create annotation when new features are added
- Update annotation when feature's shape is modified

Label Engine: ESRI Maplex Label Engine
Properties...
Creating annotation features

- Caveat: bulk edits
- Selected Features
Updating annotation features

- When feature shape is updated
  - Reposition
  - Labeling rules
  - Use caution
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- Describe properties and characteristics
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Creating annotation feature classes

• What are you starting with?
  - Labels
  - Nothing
  - CAD or coverage annotation
Append Annotation Feature Classes tool

• Use to combine multiple annotation feature classes
  - Each one becomes an annotation class

• If feature-linked all annotation:
  - Must be linked to same feature class
  - Must use the same label engine

• Clean up your symbol collections before appending

• Tip: Use the Append tool if schema is the same
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Manual construction and editing

- Tightly integrated with feature editing environment
  - Editor toolbar
  - Annotation Construction window
  - Feature templates

- Optimized tools

- Edit Annotation Tool
  - Context menu
  - Baseline editing
  - Instant visual feedback

- Productivity shortcuts

Curved annotation following user-defined baseline sketch
Creating new features

- Choose a feature template
- Choose a placement type
  - Horizontal
  - Curved
  - Leader line
- Use the Annotation Construction window
  - Enter text
  - Control placement
  - Override default properties
Editing annotation

• Edit individual features
  - Resize
  - Move
  - Rotate
  - Apply follow feature options

• Create multi-part annotation
  - Maplex
  - Distinct locations
  - Revert to single part
Leader lines and callouts

- For individual features
  - Set the default leader symbol
  - Use the Leader tool
- For many annotation features
  - Add a symbol to the collection
  - Create a feature template
Demo: Editing Annotation

- Place unplaced annotation
- Create new annotation
- Modify existing annotation
- Shortcut keys for editing
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Masking features

- Feature Outline Masks geoprocessing tool and Advanced Drawing Options
- Contour Annotation geoprocessing tool *New at 10
Symbol Level Masking

- Hide only some parts of a feature
Demo: Masking Annotation
New at 10 – Annotation toolset

- Support for very large areas
  - Map Server Cache Annotation Tile Features tool
  - Tiled Labels to Annotation
Summary

- There are different types of annotation
  - Map
  - Geodatabase (standard or feature-linked)
- Geodatabase annotation has a special set of properties
- To create annotation you can convert from labels, create from scratch, or use geoprocessing tools
- To edit, use the standard editing environment
- Geoprocessing tools are available for advanced techniques and batch creation
Related Presentations

• Creating Great Labels Using Maplex
  - Room 6F Thursday 1:30pm

• See us at the Mapping and Visualization Island at the ESRI Showcase

• Check out the Esri Press GIS Tutorial 3: Advanced Workbook
Questions?

Thank you for attending!

Please fill out the online survey:
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