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# Managing and Editing Annotation

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#### Agenda

- Introduce different types
- Manage geodatabase annotation properties
- Explore creation options
- Demonstrate editing methods
- Discuss advanced techniques
- Questions

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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

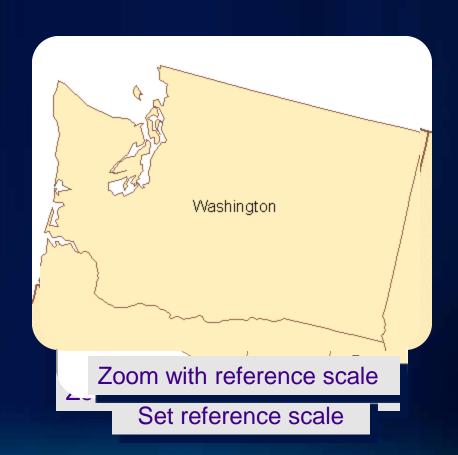
Article ID: 30509

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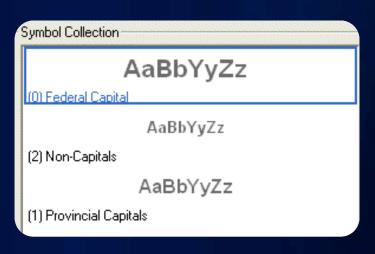
## Reference scale

- Element sizes
- Text scales
- Required



# **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
- P 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

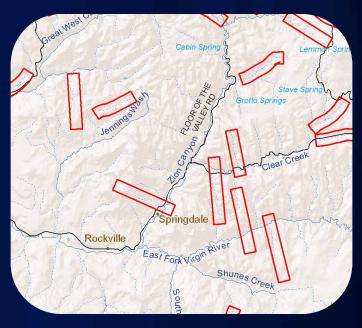
# **Problem: Red bounding box**

#### Causes:

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

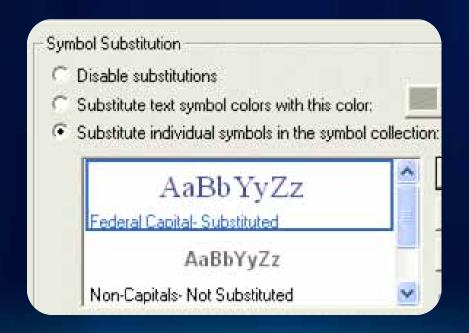
#### Resolution:

- Create new symbol and calculate IDs
- Calculate IDs to use an existing symbol



# **Annotation layer**

- Read-only
- Symbol substitution

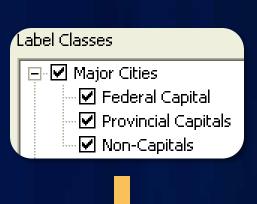


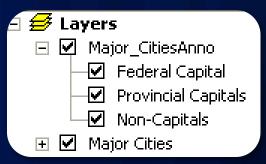


#### **Annotation classes**

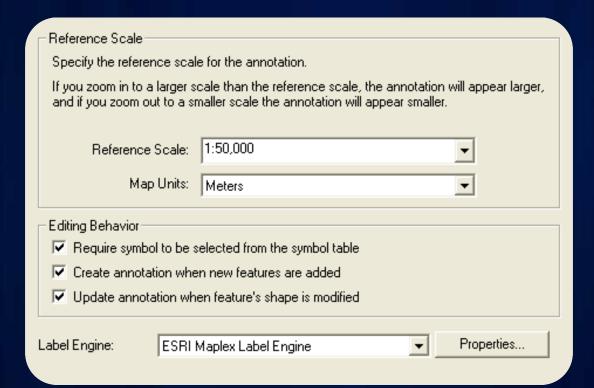
- Subgroups
- Properties
- Performance





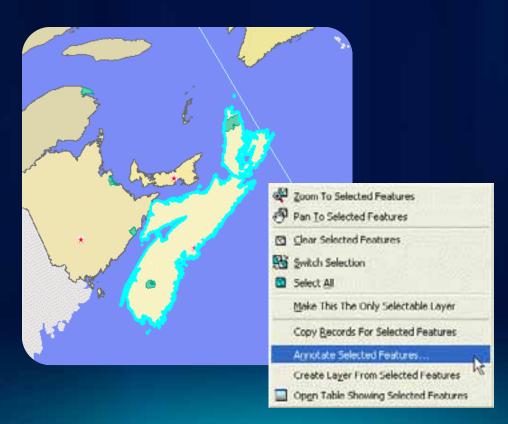


# **Additional properties**



# **Creating annotation features**

- Caveat: bulk edits
- Selected Features



# **Updating annotation features**

- When feature shape is updated
  - Reposition
  - Labeling rules
  - Use caution



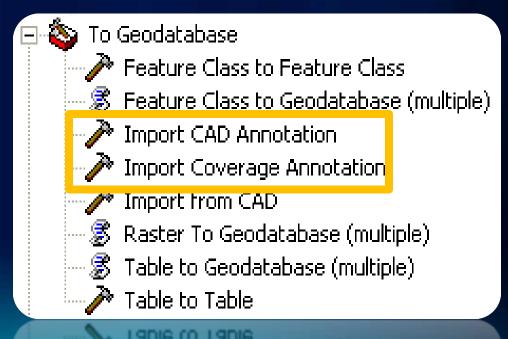


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# Creating annotation feature classes

- What are you starting with?
  - Labels
  - Nothing
  - CAD or coverage annotation



# **Append Annotation Feature Classes tool**

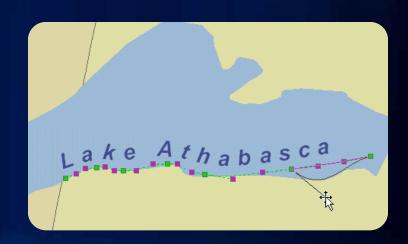
- Use to combine multiple annotation feature classes
  - Each one becomes an annotation class
- If feature-linked all annotation:
  - Must be linked to same feature class
  - Must use the same label engine
- Clean up your symbol collections before appending
- Tip: Use the Append tool if schema is the 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** 

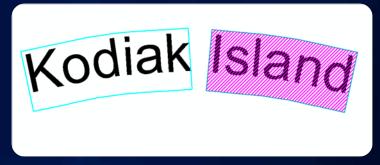
## **Creating new features**

- 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**

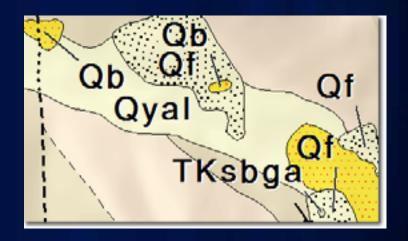
- Edit individual features
  - Resize
  - Move
  - Rotate
  - Apply follow feature options
- Create multi-part annotation
  - Maplex
  - Distinct locations
  - Revert to single part

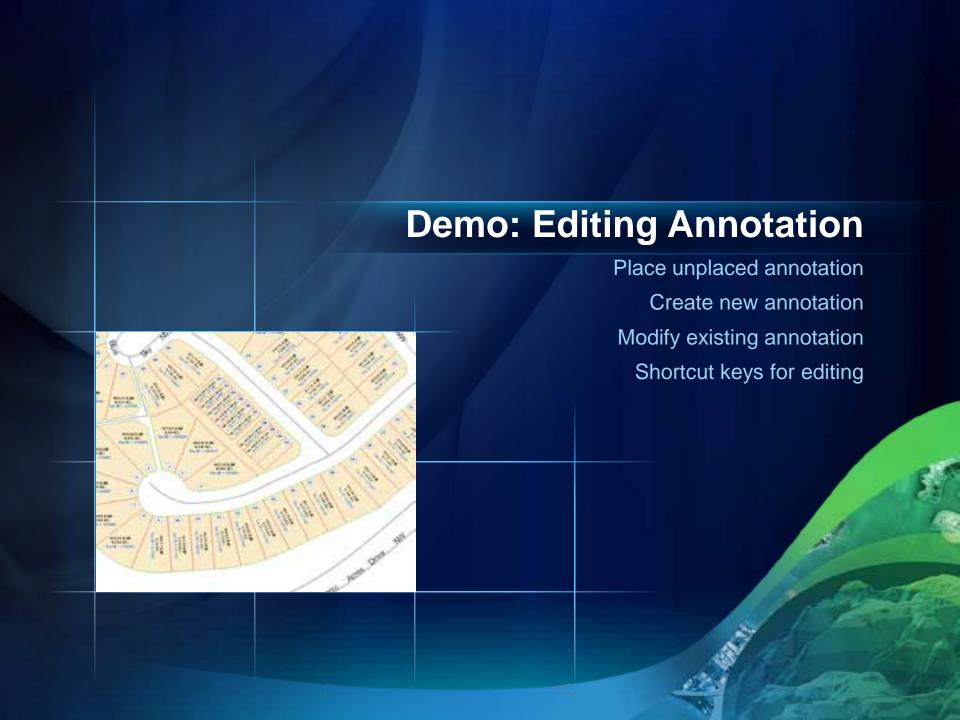




#### **Leader lines and callouts**

- 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



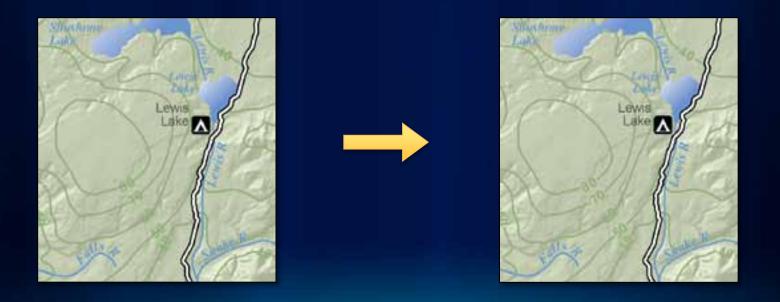


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# **Masking features**

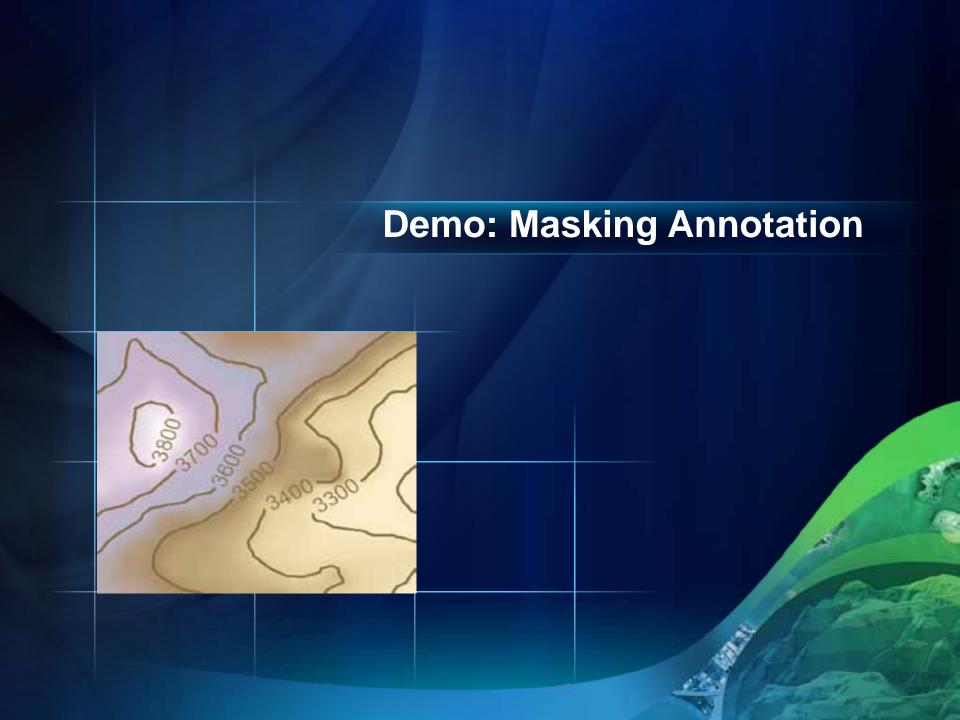
- Feature Outline Masks geoprocessing tool and Advanced Drawing Options
- Contour Annotation geoprocessing tool \*New at 10



# **Symbol Level Masking**

Hide only some parts of a feature





#### 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:

www.esri.com/sessionevals

