Contextual Generalization

- Early automated generalization tools considered the geometry of each feature sequentially without regard to symbology or other feature relationships.
- Contextual generalization tools assess multiple features from multiple layers simultaneously.
- Maintain representative pattern, density, and character.
- Resolve conflicts between symbolized features at scale.
Multi-Scale Mapping Workflow

Data Generalization (Generalization toolset)
- Reduce feature count
- Reduce feature complexity
  - Simplify Line
  - Simplify Buildings
  - Smooth Line
  - Smooth Polygon
  - Simplify Polygon
  - Smooth polygons
  - Simplify Shared Edges
  - Smooth Shared Edges
  - Simplify Polygons
  - Collapse Road Detail
  - Collapse Road Network
  - Merge Divided Roads
  - Delineate Built-Up Areas

Conflict Resolution (Graphic Conflicts toolset)
- Symbolize data for output scale
  - Resolve Road Conflicts
  - Propagate Displacement
  - Resolve Building Conflicts
- Manual editing
  - Detect Graphic Conflicts
  - Manual editing
Partitioning Large Datasets

• Establish partitions for data
  - Feature layers, map sheet boundaries, or
  - use Create Cartographic Partitions tool

• Set the Cartographic Partitions geoprocessing environment variable to this partitions layer
  - Each partition processed independently
  - Edge matching handled
Generalization Demo
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