

CLEANING UP YOUR DATA

GPS & GIS | Fall 2017

Editing tools

Customize > Toolbars > Editor

- Delete or move a feature
- Edit attributes
- Delete, insert, or move vertex of features
- Specific tools
 - ▣ Reshape feature
 - ▣ Cut polygons
 - ▣ Rotate
 - ▣ Trace
 - ▣ Copy Parallel
 - ▣ Merge/buffer/clip/union

Editing tools

Customize > Toolbars > Editor > Advanced Editing

- Copy features
- Construct Polygons
- Split Polygons
- Generalize
- Smooth

Dimension Change tools

ArcToolbox > Data Management > Features

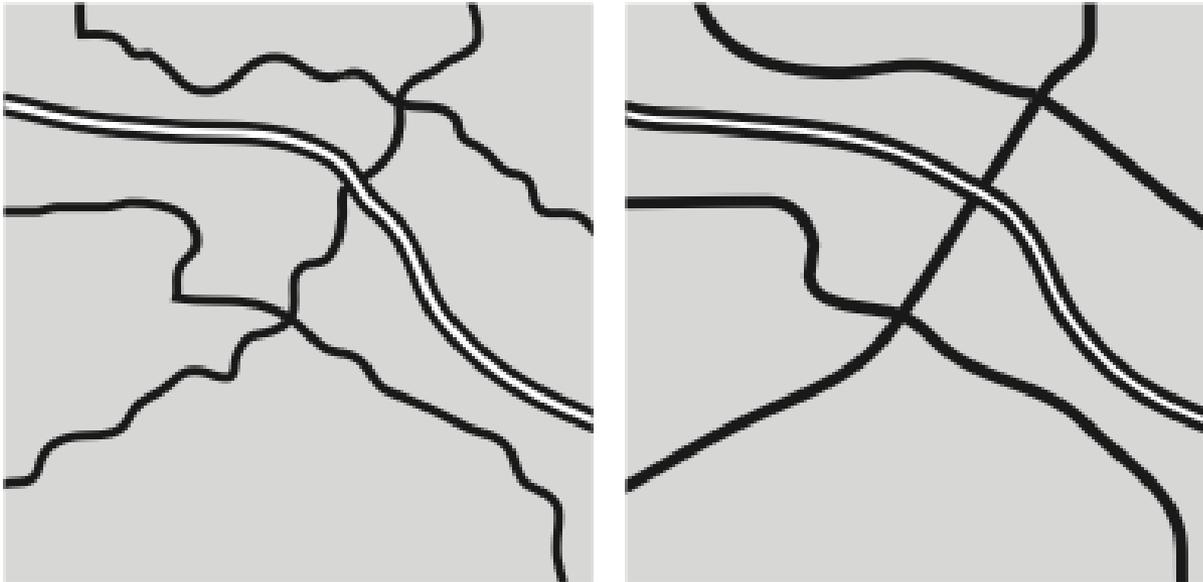
- **Feature to line.** Converts features to lines
- **Feature to point.** Converts features to points (centroids)
- **Feature to polygon.** Converts features to polygons

ArcToolbox > Cartography > Generalization

- **Aggregate Points.** Create polygon features around clusters of points

Simplification

- Simplification makes a feature less complex, yet still recognizable



Simplification Tools

ArcToolbox > Cartography > Generalization

- **Simplify Line.** Removes extraneous bends while preserving essential shape
- **Simplify polygon.** Removes extraneous bends while preserving essential shape
- **Aggregate Polygons.** Combines polygons within a specified distance to each other into a new polygon
- **Merge divided roads.** Generates single line road features in place of matched pairs of divided road lanes

Simplification Tools

ArcToolbox>Data Management>Generalization

- **Dissolve.** Aggregates features based on a specified attribute
- **Eliminate.** Eliminates polygons by merging them with neighboring polygons that have the greatest area or longest shared border

Smoothing

- Reduces the angularity of a feature by adjusting the location or adding more detail
- GIS will round angles that exceed a certain limit



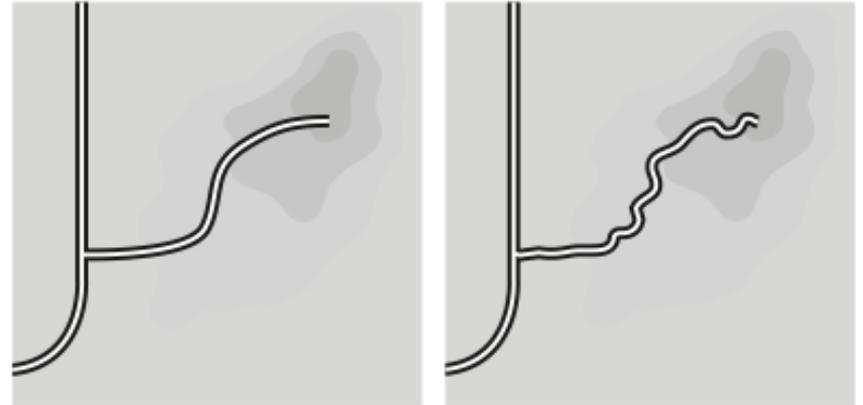
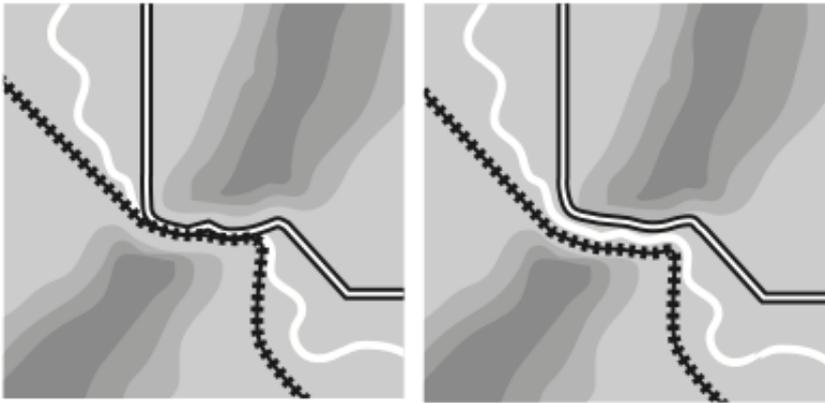
Smoothing Tools

ArcToolbox > Cartography > Generalization

- **Smooth line.** Smooths sharp angles in lines to improve aesthetic or cartographic quality
- **Smooth polygon.** Smooths sharp angles in polygons to improve aesthetic or cartographic quality

Accuracy & Enhancement

- Move a feature
- Add detail to a feature



Tools

- Editor – **Copy Parallel.** Makes a copy of selected lines at a distance you specify.
- Editor – **Edit Features.** Use the edit tool to select and edit features, including adding vertices