







- Creating new polygon features

 Buffer

 Breaking features into smaller features
- Clip, Erase, Intersect, Union
- Aggregating features into larger features

 Merge, Dissolve

Same tools in most GIS software packages, but Geoprecessing Options

processing

Buffer Clip

Intersect Union

Merge

Search For Tools

Dissolve

ArcToolbox Cenvironmen Results











Clip

- Clips the boundaries of one layer based on the reference boundaries of another layer
- 'Cookie cutter' (keep the cookie and discard the dough)
- Useful for extracting data relevant to a particular study area



































Geoprocessing in ArcGIS

Output feature class will have the attributes of the input features

- a table is created for each new layer
- · a row is created for each new spatial object
- a column is added for each column in the overlayed layers
- each feature therefore has all the attributes of its parents

Spatial reference of the output feature class will be the same as the input features

Questions

Which geoprocesssing tool to use..

- To reduce the extent of a layer
 - clip one layer with another
 intersect two layers
- To combine features in one layer that are alike
 dissolve features based on an attribute
- To combine features in two or more layers
 _ union two layers
 _ merge layers together

Useful videos

Geoprocessing:

http://www.youtube.com/watch?v=mJnQedIDI1Y http://video.esri.com/watch/634/what-is-geoprocessing_question_

Union tool: http://www.youtube.com/watch?v=JazoNrt_v-o Interset: http://www.youtube.com/watch?v=fwfcuBtnss Buffer: http://www.youtube.com/watch?v=bcWPxu5xkVo Clip: http://www.youtube.com/watch?v=K28Jalo Dissolve: http://www.youtube.com/watch?v=EX6Jalf3fg Merge: http://www.youtube.com/watch?v=EXh_Q22Tmdg

Select by Attributes: http://www.youtube.com/watch?v=Q5sz19gdrAc