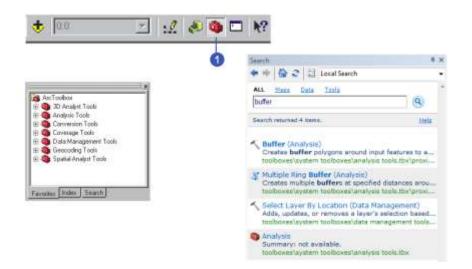
ArcToolBox: Analysis



ArcToolBox

ArctoolBox is available from both ArcCatalog and ArcMap.

A toolbox can contain tools, toolsets, and scripts and is organized according to the collection of geoprocessing commands it contains.

A toolset can contain tools, toolsets, and scripts and is organized according to the geoprocessing commands it contains.

A tool is a single geoprocessing command.

A script is a set of instructions usually stored in a file and interpreted, or compiled, at run time.

A model consists of one process or, more commonly, multiple processes strung together.

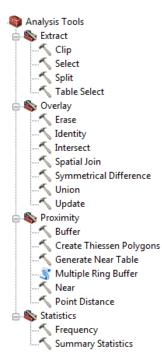
Scripts

	18 25:40 (NSC 02 bit (Inwil) on wridd. Hannord (mhammond@slappinet.com au) - see 'Help/About Python/Am
attitingfutter.py (read	al-an))
<pre>eff Courses Falses 4 Wasians As eff of Wasians As eff of Wasians As eff of Wasians As eff of Association and Association of Association and Association of Association and Association of Associations of Association Associations of Association Ass</pre>	<pre>rmmanial Spring Research Sectronis Inc. generatize & Lippe' Excitory Lines of Restarch Sector & struct Sectors Index(Spring Sector) & struct Sectors index(Spring Sector) </pre>

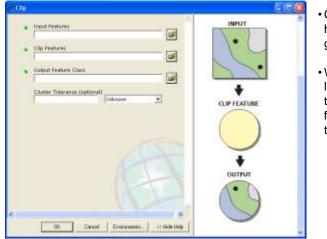
Toolsets

Extract

- Overlay
- Proximity
- Statistics



Extract - clip



- Clip features must have polygon geometry.
- When using ArcMap layers as input, only the currently selected features are used in the CLIP operation.

Extract - split



- Split features must be polygons.
- The Split Field datatype must be character.

Extract - select



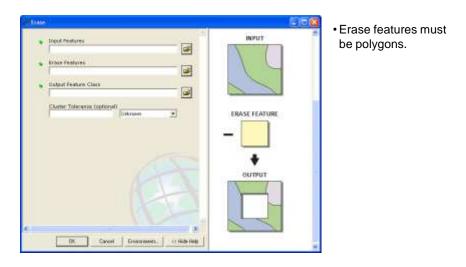
Extract - table select



Overlay Procedures (for all but spatial join tool)

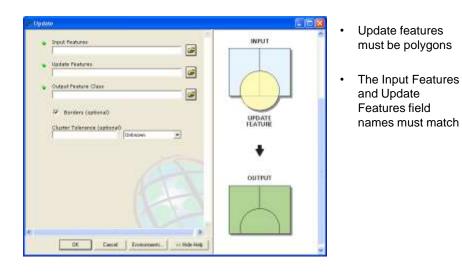
- Determine the spatial reference for processing. All the input feature classes are projected (on the fly) into this spatial reference.
- · Crack and cluster the features.
- Discover geometric relationships (overlap) between the input features and the overlap features.
- Assign attributes based on the type of overlay.
- Remove features based on the combinations of attributes and overlay types.

Overlay - erase

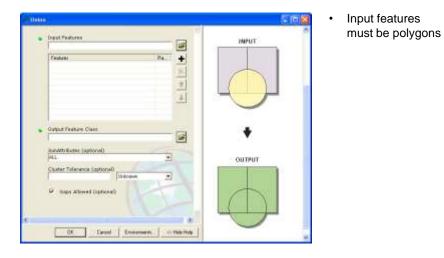


Overlay - identity			
	 Identity features must be polygons. 		

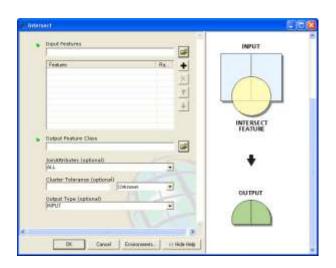
Overlay - update



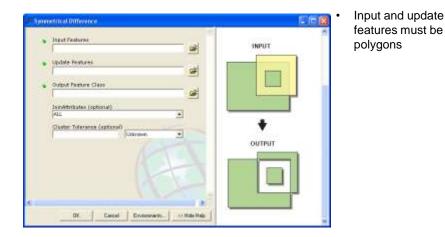
Overlay - union



Overlay - intersect



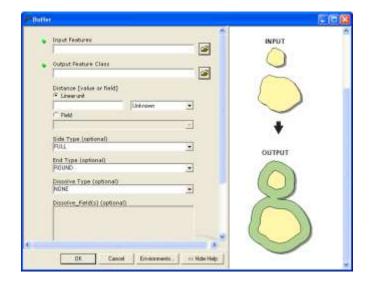
Overlay – symmetrical difference



Overlay – Spatial Join

Output Feature Class	- nel *	Match Option (optional)
Join Operation (optional)		
JOIN_ONE_TO_MANN		Defines the criteria used to match rows The match options are
V Keep All Target Features (sptional)		The march oppose are
Field Map of Jus: Features Instand)	- +	 INTERSECTS—Matches join features that intersect target features.
	X T T	 CONTARIS—Matches occur when a target feature contains a join feature. Points can't be set as target features and polygons can only be set as join features when the target features are also polygons.
Nach-Option (optional)		 IS_WITHIN—Target features within join features are matched Points can't be set as join features and polygons can only be set as target features when the join features are also polygons
Search-Radius (optional) 0 Uninown Datance Pield Name (optional)	-	CLOSEST- The Target features will be matched to the closest join
2000 BROWNING B.	*	feature

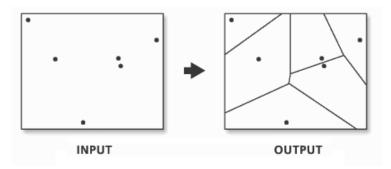
Proximity - buffer

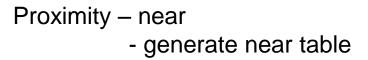


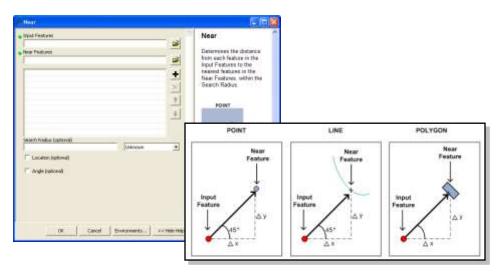
Proximity – multiple ring buffer



Proximity – create Thiessen polygons





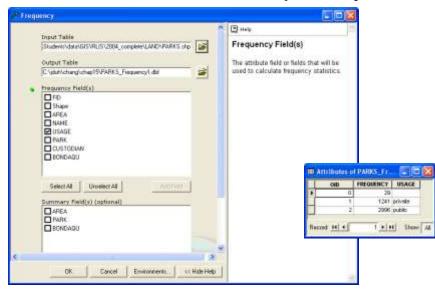


Proximity - point distance



Both input and near features (layers) must have point geometry.

Statistics – frequency



Statistics – summary statistics

