

Lesson 7: Error Checking, Value Tables, Documenting Scripts, and Running AMLs in ArcToolbox

Download the Lesson7.zip file from the course webpage. Unzip the folder to begin.

Assignment 7: Putting Everything Together

- There are two options for this week's assignment. You are free to do both options, but are required to do only one. If you do both recognize you can put both tools in the same toolbox.
- Option 1: Write a script that can be used to determine the length of hiking trails that are within the viewshed of each nest site in a dataset. The script should have error checking, and should have arguments for the required datasets. Turn in the script as a tool in a toolbox.
 - Start with the NestVisAnalysis.py. This script should run with just a little bit of editing (e.g. pathname for workspace).
 - Try to understand how it works, then modify so:
 - It has some error checking (use region indent if needed)
 - All the input and output datasets are specified by arguments.
 - Once the script is working as you want it to, then make it a tool in ArcToolbox.
- Option 2: Write a script that can be used to read-in a list of x,y coordinates; from that list of x,y coordinates, create a new shapefile with square polygons centered on the x,y coordinate pair. The size of the polygons should be 200 m x 200 m. The script should have error checking, and should have arguments for the required datasets. Turn in the script as a tool in a toolbox.
 - Start with the two scripts lesson5c_challenge.py (or your own copy of it) and lesson6c_createlines.py.
 - You will have to modify lesson5c_challenge.py slightly to make it prepare data for polygons.
 - You will have to modify lesson6c_createlines.py slightly to make it create polygons in stead of polylines.
 - Combine the two scripts into a single script, then modify so:
 - It has some error checking (use region indent if needed).
 - All the input and output datasets are specified by arguments.
 - Once the script is working as you want it to, then make it a tool in ArcToolbox.