Linear Sampling Toolbox
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Toolbox Overview

Linear sampling toolbox is purposed to automate the process of generating sample points along linear features for spatial statistical analysis. There three tools in the toolbox: network sampling, transect sampling, and contour sampling. More detail descriptions of the tools and their parameters can be seen on the tool help sidebar in the tool dialog, or on the tool help page. In ArcCatalog, right click on the tool name, and then click Help to view this help page. The toolbox requires ArcGIS 10.1 or up.

Organization of Code

Each tool is linked to a Python script file. All script files are located in the Scripts folder.

Sample Data

For testing purpose, sample data are provided in ToolData folder. Network.shp is provided to test the network sampling tool, Streams.shp is provided to test the transect sampling tool, and Contour.shp is provided to test the contour sampling tool.

Temporary Folder

The tools in Linear Sampling toolbox employ many geoprocessing tools in ArcToolbox. Most geoprocessing can work with geometry objects for input and output. However, some geoprocessing can only work with feature classes. Therefore, many feature classes have to be created temporarily during the tool execution. These intermediate feature classes are stored in temporary folder specified in the system environment. For example, for Windows 7, the temporary folder is located in `C:\Users\<username>\AppData\Local\Temp`.