

Feature Line Whiskers

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Summary

This scripting tool is intended to assist with tasks related to creating intelligent way widths from vector polygons such as building footprints (distance to front or sidewalk trace polygons found by remote sensing/computer vision/deep learning tools). Its main purpose is to create whiskers that are perpendicular to the line. Once these whiskers are made, they can be trimmed by arbitrary polygons used to determine the widths of various features. This is a tool that is intended for transportation/urban planning workflows.

Usage

The goal of this script was to create whiskers (like cat whiskers), that can be used to determine distances perpendicular to an input sample line. The intended uses for this are:

- Aid in determining right of way widths from roadbed polygons/sidewalk polygons
- Determine the distance of a road from features perpendicular to their centerline

Syntax

FeatureLineWhiskers (Input_Feature_Line, Whisker_Width, {Whisker_Field_Name}, Output_Feature_Line)

Parameter	Explanation
Input_Feature_Line	<div>Dialog Reference</div> <p>This is the input feature class whose individual geometry features will be pulled back and put into a new feature class. The input can only be a polyline for this tool, because it uses Polyline-specific methods.</p> <hr/> <div>Python Reference</div> <p>This tool depends on the segmentAlongLine</p>

There is no python reference for this param

Sample_Length

Dialog Reference

This is likely the most complex attribute to explain. If this is not set, or is zero, the heading from the line is determined by the start and end points of the line. This attribute allows create a new line that is near the center of line that has a much smaller size. The same line will not be seen, but this attribute determines the length sampled from the center of the line to determine heading.

There is no python reference for this param

Output_Feature_Line

Dialog Reference

This is the output polyline feature class that will be created by this tool. It should have the same name as the original feature class derived by an input cursor.

Python Reference

Whiskers should be perpendicular to the input line.

Code Samples

There are no code samples for this tool.

Tags

Whisker, Trim, Line, Split, Editing, Batch, Animations, Preserve Fields

Credits

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