

ArcGIS Geoprocessing: Python Scripting—An Introduction

Goals of the workshop

- Introduce the Python language.
- Work with geoprocessing tools in Python.
- Learn how to become more efficient with geoprocessing tasks.
- Using the PythonWin IDE to create and debug Python scripts.

Major topics covered

- Geoprocessing in Python: Getting started; running tools; using environments.
- Exploring the geoprocessor object model: What it is; where to find it; how to read it; what functionality it provides.
- Using geoprocessor methods: Using list functions to perform batch processing; using the Describe method to get data properties.
- Handling errors: Simple techniques to anticipate and deal with errors; getting and displaying messages; debugging a script.
- Performing common scripting tasks: Bulk conversion; batch processing.
- Making your script portable: Receiving arguments; setting relative paths.
- Using PythonWin: Create, edit, debug, and run scripts.
- Exporting models to Python: Tips and tricks.
- Getting additional help: Useful Python language references; Geoprocessing Resource Center.