

Introduction to Geoprocessing Scripts Using Python *Two days (16 hours)*

Overview

The ArcGIS 9 geoprocessing framework includes a scripting environment, and Python is the scripting language included with ArcGIS. This course introduces the Python scripting language and shows how it can be used to access and automate geoprocessing functionality. Participants learn Python scripting syntax, then begin writing scripts to automate geoprocessing operations. Participants also learn how to incorporate Python scripts as custom tools in ArcToolbox.

This course is designed for experienced ArcGIS users who want to learn how to automate everyday processes or create complex analytical scripts. ARC Macro Language (AML™) and Avenue programmers who want to write scripts for ArcGIS 9 will also find the course of interest.

Goals

Those completing this course will be able to

- Understand the basics of the Python scripting language.
- Understand how scripts can be used in the ArcGIS geoprocessing framework.
- Incorporate tools and environment settings into scripts.
- Incorporate cursors, describe objects, and enumerations into scripts.
- Work with scripts in ArcToolbox.
- Access resources for debugging Python code.

Prerequisites and recommendations

Participants should have completed *Introduction to ArcGIS I* or *Learning ArcGIS 9* and *Introduction to ArcGIS II* or have equivalent knowledge. Basic programming skills, such as using loops and conditional statements, are also required.