



Introduction to Geoprocessing Scripts Using Python

Duration: 3 Days (24 Hours)

One script is worth a thousand mouse clicks.

Reduce the time spent on complex and repetitive workflows, so you can focus on GIS work that can't be automated. This course teaches how to create Python scripts for key ArcGIS workflows and share them so they are accessible to others.

Note: Course concepts apply to ArcGIS 10.4, 10.5, and 10.6. Esri will provide ArcGIS 10.6 software for use during class. Course exercises use ArcMap.

Goals



Manage and update attribute data and features with cursors and objects.



Automate geoprocessing and map production operations.



Ensure your script syntax is valid and errors are properly handled.



Share scripts using custom script tools and geoprocessing packages.

Who should attend?

GIS Developers

Suggestion

Completion of **ArcGIS 2: Essential Workflows** and **ArcGIS 3: Performing Analysis** or equivalent knowledge;

Basic programming skills, including using loops and conditional statements; and knowledge of Python syntax and experience creating Python scripts. For those new to Python, the Python for Everyone web course is recommended.

Software

Esri will provide the following software to use during class:

- **ArcGIS Desktop 10.5 (Standard or Advanced)**
- **ArcGIS Online**
- **PyScripter for Python 2.7**
- **Python 2.7.13**