

Training the GIS Professional

Getting Started with the Python Scripting Language - 1 day

Overview

Python underpins many functions in the ArcGIS System, especially in the Desktop product suite (ArcMap or ArcGIS Pro) where it is used to automate geoprocessing tasks, publish and create services within your portal and manage the ArcMap map document or the ArcGIS Pro Project.

This virtual training course will teach you the underlying Python scripting language and will provide you with a solid foundation to writing Python scripts. On completing this course you will have the necessary background skills to undertake the relevant Python courses for ArcMap, ArcGIS Pro and administering your portal using Python.

Please be aware that this course contains no instruction on how to perform geoprocessing using ArcPy or the ArcGIS API for Python.

Who should attend

- GIS Analysts or GIS Technical Leads
- GIS Professionals
- GIS Desktop Application Developers
- GIS Application Developers

Goals

- Learn how to create Python scripts
- Investigate the Python language syntax
- Understand what variables and objects are
- Work with Python Lists, Tuples and Dictionaries
- Process sequence objects using loops and perform conditional branching
- Learn how to access additional functionality supplied with Python

Topics Covered

- Introducing the Python scripting language. Introducing Integrated Development Environments (IDEs); Statements
- Introducing Python's Basic Data Types. Variables and objects; Introducing Python Data Types; Working with Strings and numbers
- Python's built-in functions. Obtaining Python's built-in functions; function syntax; obtaining help and best practice
- Introducing Lists and Tuples. What is a Python List?; Working with the List object; Creating and processing a Python Tuple
- Introducing Dictionaries. Introducing Python Dictionaries; Dictionary members
- Conditional Branching, Operators and Loops. What is a conditional statement; Conditional statement syntax; Using operators; Looping through collections; Syntax rules for conditional branching and looping
- Working with Python's standard modules. Uses of modules; ways of importing modules; some of Python's common modules

Prerequisites

Note: This course is a pre-requisite for our Introduction to Geoprocessing Scripts using Python 10.x, ArcGIS Pro: Creating Python Scripts for ArcGIS and an "Introduction to Administering your Portal using the ArcGIS API for Python"

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