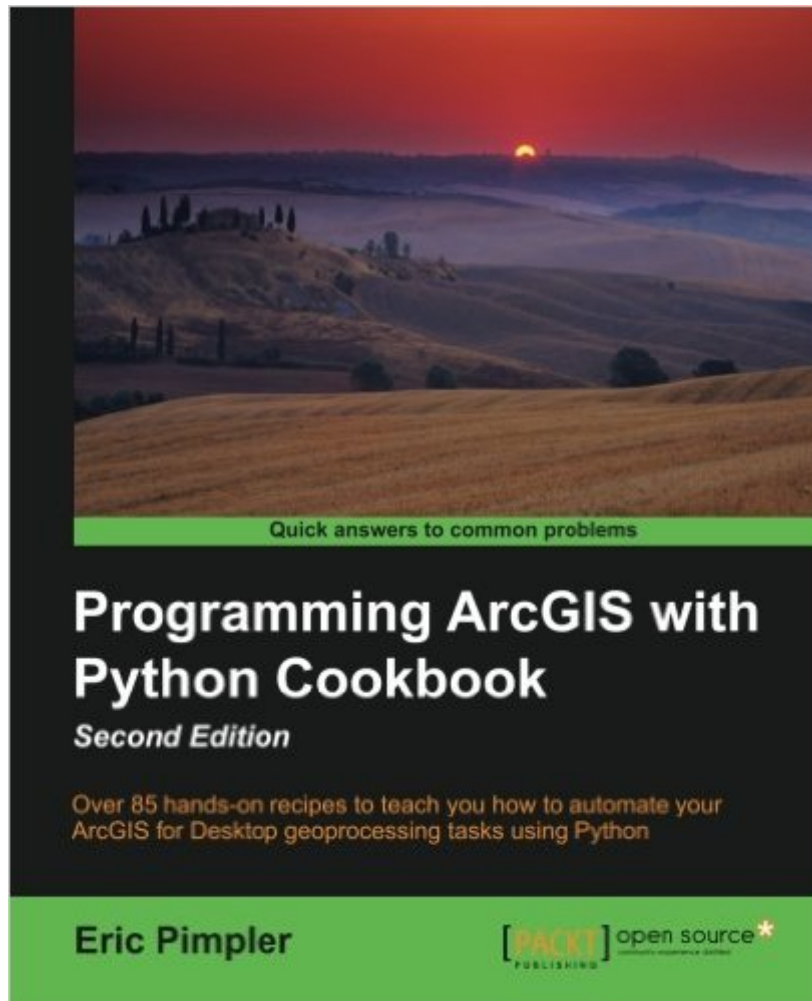


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# Programming ArcGIS With Python Cookbook - Second Edition



## Synopsis

**Key Features** Become a more efficient GIS professional by automating your geoprocessing tasks with Python and ArcGIS Desktop. In addition to the fundamentals, learn advanced, in-demand GIS skills sought by many employers. Step-by-step recipes that provide real-world solutions to common geoprocessing tasks.

**Book Description** ArcGIS Desktop is the leading desktop solution for performing GIS tasks. The ArcPy site package enables Python programmers to access the GIS functionality provided by ArcGIS Desktop to automate geoprocessing tasks. Whether you are new to ArcGIS or a seasoned professional, you almost certainly spend time each day performing various geoprocessing tasks. This book will teach you how to use the Python programming language to automate these ArcGIS Desktop geoprocessing tasks and make you a more efficient and effective GIS professional.

The book begins with the fundamentals of starting to use Python with ArcGIS, followed by recipes on managing map documents and layers, including how to find and fix broken data links in these files. The focus then shifts to automation of map productions and finding, retrieving, and executing geoprocessing tools. In the second part of the book, you will learn to create custom geoprocessing tools and how to use the Attribute and Location tools to select specific features. Next, the book covers usage of the ArcPy Data Access Module, along with various key aspects of geoprocessing. The third part of the book covers topics for advanced users including the REST API, and also teaches you to use Python with ArcGIS Pro. The book finishes with appendices covering how to automate Python scripts, and the five things that should be at the back of every GIS programmer's mind.

**What you will learn** Manage your map document files, layer files, feature classes, and tables. Programmatically update layer properties and symbology. Find and fix broken data links in your map document files. Automate map production, printing, and the creation of PDF map books. Develop custom geoprocessing tools that can be shared with others. Query and select data from feature classes and tables. Create new feature classes or tables and add, update, and delete records. Customize the ArcGIS Desktop interface with Python add-ins.

**About the Author** Eric Pimpler is the founder and owner of GeoSpatial Training Services and has over 20 years of experience implementing and teaching GIS solutions using ESRI, Google Earth/Maps, and various open source technologies. Currently, Eric focuses on ArcGIS scripting with Python and the development of custom ArcGIS Server web and mobile applications using JavaScript.

**Table of Contents** Fundamentals of the Python Language for ArcGIS. Managing Map Documents and Layers. Finding and Fixing Broken Data Links. Automating Map Production and Printing. Executing Geoprocessing Tools from Scripts. Creating Custom Geoprocessing Tools. Querying and Selecting Data. Using the ArcPy Data Access Module with Feature Classes and

Tables  
Listing and Describing GIS Data  
Customizing the ArcGIS Interface with Add-ins  
Error Handling and Troubleshooting  
Using Python for Advanced ArcGIS  
Using Python with ArcGIS pro

## Book Information

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## Customer Reviews

I haven't gone through all the exercises yet, but so far I liked this book very much. There are many useful examples which you could readily apply to your daily jobs (if you are GIS user), such as exporting a map to pdf or image file, automating printing process, and creating geoprocessing tools, etc. Many of the examples are not too long to follow, and very user friendly (the book comes with all the necessary electronic files, including codes). Considering the fact that the first edition came out only in February 2013, this second edition came out rather fast; I guess there's much update since then and also many requests for the updated version (so, authors, thank you for your quick action!). One drawback was that I'm using ArcGIS ver. 10.1 (the book is written for ver.10.3) and some scripts did not work (e.g. Chapter 6, reading from a text file and plotting wildfire points). For those parts, ideally, the authors could have clarified which script would or would not work in which version of ArcGIS. Overall, I would recommend this cookbook to those who have taken intro Python class for ArcGIS, and want to explore further.

I took a Python scripting class a few years ago but haven't used it in quite a while. I needed a refresher on Python scripting for an ArcGIS upcoming project and this book was perfect. The fundamentals were nicely reviewed and the rest of the book is full of easy to reference practical

examples. I especially like the "How it works..." sections that explain the finer points of the code. This book may be a little challenging for those unfamiliar with object-oriented programming, but I highly recommend it for anyone who has some Python experience.

It's a perfect book to start learning arcpy. The exercises are interesting but not too complicated so you don't feel frustrated and every step is explained so you can't get lost. After doing an arcpy online course (beginner level) I purchased the book Arcpy and ArcGis- Geospatial Analysis With Python but I think it's not the best option for beginners. I recommend Programming ArcGIS with Python Cookbook for beginners.

The python steps are very ordinary and something I would do on a daily basis, maybe not even once in awhile. So a bit disappointed on the content.

If you can Google search, "arcpy \_\_\_\_\_" you don't need this book. Waste of money.

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