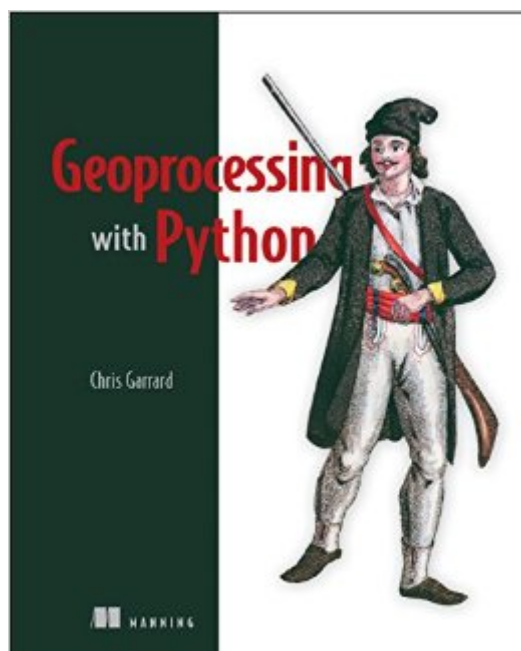


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# Geoprocessing With Python



## Synopsis

Summary Geoprocessing with Python teaches you how to use the Python programming language, along with free and open source tools, to read, write, and process geospatial data. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology This book is about the science of reading, analyzing, and presenting geospatial data programmatically, using Python. Thanks to dozens of open source Python libraries and tools, you can take on professional geoprocessing tasks without investing in expensive proprietary packages like ArcGIS and MapInfo. The book shows you how.

About the Book Geoprocessing with Python teaches you how to access available datasets to make maps or perform your own analyses using free tools like the GDAL, NumPy, and matplotlib Python modules. Through lots of hands-on examples, you'll master core practices like handling multiple vector file formats, editing geometries, applying spatial and attribute filters, working with projections, and performing basic analyses on vector data. The book also covers how to manipulate, resample, and analyze raster data, such as aerial photographs and digital elevation models.

What's Inside Geoprocessing from the ground up Read, write, process, and analyze raster data Visualize data with matplotlib Write custom geoprocessing tools Three additional appendixes available online

About the Reader To read this book all you need is a basic knowledge of Python or a similar programming language.

About the Author Chris Garrard works as a developer for Utah State University and teaches a graduate course on Python programming for GIS.

Table of Contents

Introduction Python basics Reading and writing vector data Working with different vector file formats Filtering data with OGR Manipulating geometries with OGR Vector analysis with OGR Using spatial reference systems Reading and writing raster data Working with raster data Map algebra with NumPy and SciPy Map classification Visualizing data

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A - Installation

B - References

C - OGR - online only

D - OSR - online only

E - GDAL - online only

## Book Information

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## Customer Reviews

This book could simply stand on the merits of learning the basics of Python, using geospatial data as examples. The author has the ability to take complex principles and present those principles in an uncomplicated manner. The Python code examples are given line by line and does a great job in giving plain and straightforward explanations. Examples are used from many different types of vector and raster data, which gave me the opportunity to learn and understand geospatial formats with which I was not familiar. The book is broken down into logical chapters, each building upon the previous ones. Instruction is given on how to install and configure the Python programming environment. With other books, configuring the environment has not always been that straight forward. Geoprocessing with Python stands above other programming books I have read. What I really like about this particular book is that I can take the knowledge I gained throughout the book and create programs that are practical and useful in my craft as a GIS professional.

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