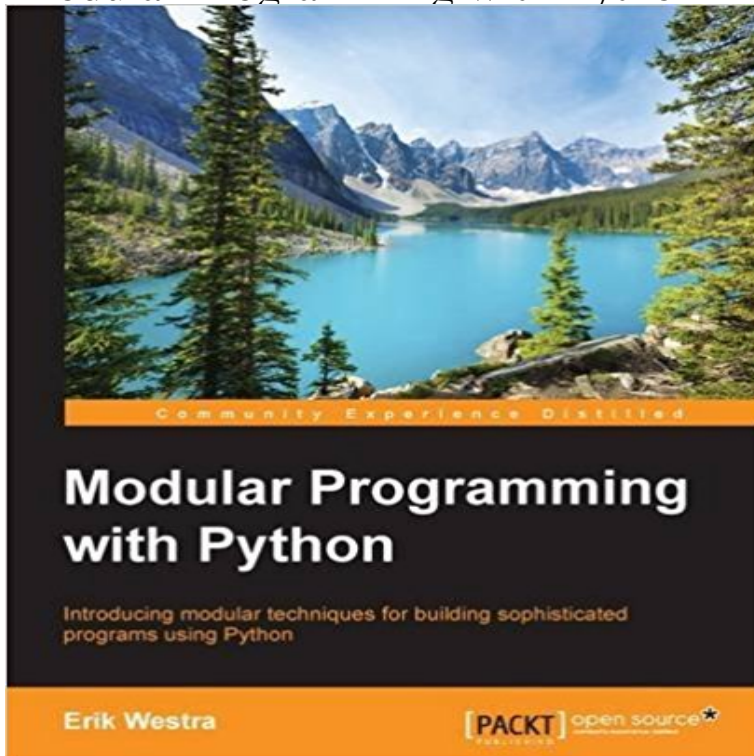


Modular Programming with Python



Key FeaturesThe book would help you develop succinct, expressive programs using modular designThe book would explain best practices and common idioms through carefully explained and structured examplesIt will have broad appeal as far as target audience is concerned and there would be take away for all beginners to Python

Book DescriptionPython has evolved over the years and has become the primary choice of developers in various fields. The purpose of this book is to help readers develop readable, reliable, and maintainable programs in Python.Starting with an introduction to the concept of modules and packages, this book shows how you can use these building blocks to organize a complex program into logical parts and make sure those parts are working correctly together.Using clearly written, real-world examples, this book demonstrates how you can use modular techniques to build better programs. A number of common modular programming patterns are covered, including divide-and-conquer, abstraction, encapsulation, wrappers and extensibility. You will also learn how to test your modules and packages, how to prepare your code for sharing with other people, and how to publish your modules and packages on GitHub and the Python Package Index so that other people can use them. Finally, you will learn how to use modular design techniques to be a more effective programmer.

What you will learnLearn how to use modules and packages to organize your Python codeUnderstand how to use the import statement to load modules and packages into your programUse common module patterns such as abstraction and encapsulation to write better programsDiscover how to create self-testing Python packagesCreate reusable modules that other programmers can useLearn how to use GitHub and the

Python Package Index to share your code with other people
Make use of modules and packages that others have written
Use modular techniques to build robust systems that can handle complexity and changing requirements over time
About the Author
Erik Westra has been a professional software developer for over 25 years, and has worked almost exclusively in Python for the past decade. Erik's early interest in graphical user interface design led to the development of one of the most advanced urgent courier dispatch systems used by messenger and courier companies worldwide. In recent years, Erik has been involved in the design and implementation of systems matching seekers and providers of goods and services across a range of geographical areas, as well as real-time messaging and payments systems. This work has included the creation of real-time geocoders and map-based views of constantly changing data. Erik is based in New Zealand, and works for companies worldwide. Erik is also the author of the Packt titles Python Geospatial Development, Python Geospatial Analysis, and Building Mapping Applications with QGIS.
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