



Functional Programming in Python

Functional Python Programming

Martin McBride



Functional Python Programming:

Functional Python Programming Steven F. Lott, Ricardo Banffy, 2022-12-30 Python isn't all about object oriented programming. Discover a valuable way of thinking about code design through a function first approach and learn when you need to use it. Now with detailed exercises at the end of every chapter. Purchase of the print or Kindle book includes a free eBook in PDF format. Key Features: Learn how, when and why to adopt functional elements in your projects. Explore the Python modules essential to functional programming like `itertools` and `functools`. Revised to cover new features of Python 3.10. Exercises at the end of every chapter and more. Book Description: Not enough developers understand the benefits of functional programming or even what it is. Author Steven Lott demystifies the approach, teaching you how to improve the way you code in Python and make gains in memory use and performance. Starting from the fundamentals, this book shows you how to apply functional thinking and techniques in a range of scenarios with examples centered around data cleaning and exploratory data analysis. You'll learn how to use generator expressions, list comprehensions, and decorators to your advantage. You don't have to abandon object oriented design completely, though you'll also see how Python's native object orientation is used in conjunction with functional programming techniques. By the end of this book, you'll be well versed in the essential functional programming features of Python and understand why and when functional thinking helps. You'll also have all the tools you need to pursue any additional functional topics that are not part of the Python language. What you will learn: Use Python's libraries to avoid the complexities of state-changing classes. Leverage built-in higher order functions to avoid rewriting common algorithms. Write generator functions to create lazy processing. Design and implement decorators for functional composition. Make use of Python type annotations to describe parameters and results of functions. Apply functional programming to concurrency and web services. Explore the `PyMonad` library for stateful simulations. Who this book is for: The functional paradigm is very useful for programmers working in data science, but any Python developer who wants to create more reliable, succinct, and expressive code will have much to learn from this book. No prior knowledge of functional programming is required to get started, though Python programming knowledge is assumed. A running Python environment is essential.

Functional Python Programming Steven F. Lott, 2018-04-13 Create succinct and expressive implementations with functional programming in Python. Key Features: Learn how to choose between imperative and functional approaches based on expressiveness, clarity, and performance. Get familiar with complex concepts such as monads, concurrency, and immutability. Apply functional Python to common Exploratory Data Analysis (EDA) programming problems. Book Description: If you're a Python developer who wants to discover how to take the power of functional programming (FP) and bring it into your own programs, then this book is essential for you, even if you know next to nothing about the paradigm. Starting with a general overview of functional concepts, you'll explore common functional features such as first-class and higher-order functions, pure functions, and more. You'll see how these are accomplished in Python 3.6 to give you the core foundations you'll build upon.

After that you'll discover common functional optimizations for Python to help your apps reach even higher speeds. You'll learn FP concepts such as lazy evaluation using Python's generator functions and expressions. Moving forward you'll learn to design and implement decorators to create composite functions. You'll also explore data preparation techniques and data exploration in depth and see how the Python standard library fits the functional programming model. Finally to top off your journey into the world of functional Python you'll look at the PyMonad project and some larger examples to put everything into perspective.

What you will learn

- Use Python's generator functions and generator expressions to work with collections in a non-strict or lazy manner.
- Utilize Python library modules including `itertools`, `functools`, multiprocessing and concurrent features to ensure efficient functional programs.
- Use Python strings with object-oriented suffix notation and prefix notation.
- Avoid stateful classes with families of tuples.
- Design and implement decorators to create composite functions.
- Use functions such as `max`, `min`, `map`, `filter` and `sorted`.
- Write higher-order functions.

Who this book is for

This book is for Python developers who would like to perform functional programming with Python. Python programming knowledge is assumed.

Functional Python Programming - Second Edition Steven Lott, 2018

Create succinct and expressive implementations with functional programming in Python

About This Book

Learn how to choose between imperative and functional approaches based on expressiveness, clarity and performance. Get familiar with complex concepts such as monads, concurrency and immutability. Apply functional Python to common Exploratory Data Analysis (EDA) programming problems.

Who This Book Is For

This book is for Python developers who would like to perform functional programming with Python. Python programming knowledge is assumed.

What You Will Learn

- Use Python's generator functions and generator expressions to work with collections in a non-strict or lazy manner.
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- Design and implement decorators to create composite functions.
- Use functions such as `max`, `min`, `map`, `filter` and `sorted`.
- Write higher-order functions.

In Detail

If you're a Python developer who wants to discover how to take the power of functional programming (FP) and bring it into your own programs, then this book is essential for you, even if you know next to nothing about the paradigm. Starting with a general overview of functional concepts, you'll explore common functional features such as first-class and higher-order functions, pure functions and more. You'll see how these are accomplished in Python 3.6 to give you the core foundations you'll build upon.

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Style and approach

This book

provides a general overview of functional concepts and then delves deeper into the functional features showing you how the Python standard library fits the functional programming model It also dem

Python Functional Programming Simplified: A Practical Guide with Examples William E. Clark, 2025-03-29 Python Functional Programming Simplified A Practical Guide with Examples provides a comprehensive overview of functional programming concepts as applied in the Python programming language This book systematically introduces essential principles such as first class functions immutability and recursion and presents these ideas in a clear and precise manner It builds a solid foundation for programmers seeking to leverage functional techniques to produce reliable and maintainable code The book is organized into coherent chapters that progressively develop the reader's understanding from fundamental concepts to more advanced techniques Detailed examples and step by step explanations are used to illustrate built in functions like lambda expressions map filter and reduce as well as advanced methods including decorators and currying Each section is designed to demonstrate practical applications ensuring that theoretical concepts are consistently reinforced with demonstrative Python code Targeting both budding programmers and experienced developers interested in modern programming paradigms this guide emphasizes hands on learning and practical problem solving The material is presented in a straightforward and professional tone enabling readers to develop effective strategies for integrating functional programming practices into their projects By focusing on clear technical explanations and real world examples the book equips readers with the tools needed to write concise scalable and robust Python code

Functional Programming in Python Martin McBride, 2019-11-28 Learn functional programming concepts and techniques to build Python applications Key Features Study in detail all aspects of functional programming including immutability generators and more Reinforce your learning through elaborate examples Learn how to implement advanced topics like closures memoization and monads in your applications Book Description Python supports four programming paradigms imperative procedural object oriented and functional Of these functional programming is probably the least understood and the least used This book covers several topics that are directly and indirectly related to functional programming After a quick overview of functional programming and its characteristics Functional Programming in Python explains the various concepts of Python starting with functions You'll learn how to change the value of an object by using mutability You'll then look at recursion as a more functional alternative to looping for certain algorithms and learn how memoization alleviates the limitations of recursion in certain situations The book further explains how to use closures as function factories and how to handle errors and exceptions with functors and monads By the end of this book you'll have all the knowledge you need for developing your applications with functional programming in Python What you will learn Understand the advantages and disadvantages of functional programming Use closures in your code to dynamically create functions Create your own iterators Use the general purpose functools to create your own specialized reducing functions Study and implement list and generator comprehensions to create lists Create customized iterators with generators Who this

book is for If you are a developer looking to create applications in Python using functional programming this book is ideal for you You will only need a basic knowledge of Python Prior knowledge or experience of functional programming is not required

Functional Programming in Python David Mertz, 2018-02-23 In this document we'll take a tour of Python's features suitable for implementing programs in a functional style After an introduction to the concepts of functional programming we'll look at language features such as iterators and generators and relevant library modules such as itertools and functools

A Functional Start to Computing with Python Ted Herman, 2013-07-26 A Functional Start to Computing with Python enables students to quickly learn computing without having to use loops variables and object abstractions at the start Requiring no prior programming experience the book draws on Python's flexible data types and operations as well as its capacity for defining new functions Along with the specifics of **High-Performance Web Apps with Functional Python** Fredrick B Forest, 2025-06-30 Build Lightning Fast Web Apps with Functional Python The Clean Scalable Way Tired of bloated code unpredictable performance and scaling nightmares High Performance Web Apps with Functional Python shows you how to write lean modular and maintainable applications that deliver speed and stability without sacrificing developer joy Whether you're a seasoned Python developer or transitioning from OOP to functional paradigms this book offers a practical roadmap to mastering performance driven web development Learn to combine the elegance of functional programming with Python's flexibility to create clean testable and production ready web apps Inside you'll discover how to Leverage functional techniques to write cleaner more predictable code Optimize performance across async workflows APIs and data pipelines Build scalable web backends using modern Python frameworks and libraries Minimize bugs and technical debt using immutability and pure functions Architect systems that are easier to test extend and deploy at scale Every chapter is packed with real world examples concise explanations and performance strategies proven in high demand environments from startup MVPs to enterprise grade systems If you're building web apps that need to be fast scalable and maintainable this book delivers the toolkit you've been missing Python In - Depth Ahidjo Ayeva, Kamon Ayeva, Aiman Saed, 2020-10-06 Build it with Python the popular and batteries included programming tool Key Features _ Get familiar with the fundamentals of Python _ Understand the OOP paradigm and learn to write your custom object classes _ Explore tools and techniques to measure code execution for Performance Optimization _ Understand how Python is used in the main Cryptographic mechanisms Description Python In Depth gives you a detailed presentation of the possibilities for solving everyday problems even complex ones using Python You will begin by setting up Python in your system and then learn about the fundamentals of Python so that you have a rock solid foundation to build upon You will explore the foundations of Python programming such as the built in data types functions objects and classes files etc You will then explore the different programming paradigms such as OOP Functional and Concurrent and find the best approach given a situation You will also learn how to utilize an interchange format to exchange data and understand how to carry out performance optimization effective debugging and

security among other techniques Towards the end you will enjoy two chapters dedicated to two domains where Python usage is currently very strong Data Science and Web Development What will you learn _ Learn how to improve your Python Code Quality _ Explore the techniques and frameworks for Python GUI Programming _ Solve Data Science and Machine Learning problems using Python _ Get familiar with Python web frameworks Django and Flask Who this book is for This book is for anyone who is new to Software Development and wants to learn Python Existing Python users can also use this book for a quick reference for the fundamentals and the features introduced in Python 3 7 Table of Contents 1 Getting Started with Python 2 Program Flow and Error Handling 3 Functions Modules and Functional Programming 4 Useful Modules and Libraries 5 Object Orientation 6 Decorators and Iterators 7 Files and Data Persistence 8 Context Managers 9 Performance Optimization 10 Cryptography 11 Concurrent Execution 12 Logging and Debugging 13 Code Style and Quality Assurance 14 Code Packaging and Dependencies 15 GUI Programming 16 Web Development 17 Data Science **Functional**

Programming in Python Pythquill Publishing,2025-06-15 What You Will Learn in This Book Master the core principles of Functional Programming FP including immutability pure functions and higher order functions to write more predictable and testable Python code Leverage Python s built in functional tools like lambda expressions map filter reduce and various comprehensions for concise and efficient data manipulation Utilize advanced functional techniques such as closures decorators partial application and recursion to build sophisticated and reusable functions Implement effective error handling strategies in a functional style moving beyond traditional exception handling for more robust applications Work with immutable data structures in Python understanding their benefits for program clarity and concurrency and explore relevant third party libraries Design and implement functional data processing pipelines using iterators generators and the itertools module for memory efficient and scalable solutions Apply functional design patterns like function composition and understand conceptual aspects of Monads and Functors to structure complex applications Integrate functional programming seamlessly with Object Oriented Python OOP learning when and how to combine paradigms for optimal results Refactor existing imperative code into a functional style to improve readability reduce side effects and enhance maintainability Develop robust testing strategies for functional code benefiting from the inherent testability of pure functions and exploring property based testing Simplify concurrency and parallelism in your Python applications by minimizing shared mutable state and leveraging functional approaches with multiprocessing and asyncio Utilize modern Python features like type hinting structural pattern matching and the walrus operator to write more expressive and type safe functional code Optimize functional Python code for performance understanding the trade offs and applying techniques like memoization where beneficial Explore key functional programming libraries within the Python ecosystem such as toolz and fn py to extend your functional toolkit Analyze real world case studies demonstrating the practical application of functional programming principles in various Python projects *Mastering Functional Programming with Python* Brett Neutreon,2024-03-20 Dive

into the world of functional programming FP with *Mastering Functional Programming with Python* a comprehensive guide designed to elevate your Python skills and introduce you to the elegance and efficiency of the functional programming paradigm Whether you re an intermediate Python developer eager to explore FP concepts or an experienced programmer looking to refine your functional programming techniques this book has something for you With a meticulous selection of topics this book covers everything from the fundamentals of functional programming such as pure functions immutability and first class functions to more advanced topics like monads functors and generators Each chapter is carefully structured providing a deep dive into the core concepts of functional programming within the Python ecosystem Practical examples are woven throughout the book to demonstrate how these concepts can be applied to real world scenarios making your code more modular efficient and easy to understand *Mastering Functional Programming with Python* is more than just a book it s a resource that will help you think in a functional way enabling you to write Python code that s not just effective but truly transformative Embrace the power of functional programming and start writing cleaner more efficient Python code today

Guide To: Functional Python and Comprehension Constructs Matt Harrison,2013-09-04 *Functional Programming and List Comprehensions in Python* *A Concise Introduction to Programming in Python* Mark J. Johnson,2011-12-21 Suitable for newcomers to computer science *A Concise Introduction to Programming in Python* provides a succinct yet complete first course in computer science using the Python programming language The book features Short modular chapters with brief and precise explanations intended for one class period Early introduction of basic procedural constructs such as functions selection and repetition allowing them to be used throughout the course Objects are introduced in the middle of the course and class design comes toward the end Examples exercises and projects from a wide range of application domains including biology physics images sound mathematics games and textual analysis No external libraries are required simplifying the book s use in common lab spaces Each chapter introduces a main idea through a concrete example and a series of exercises Designed to teach programming in a concise yet comprehensive way this book provides a timely introduction for students and anyone interested in learning Python *Python Programming* Jack Brown,2021-06-17 50% DISCOUNT FOR BOOKSTORES Create succinct and expressive implementations with functional programming in Python Key Features Learn how to choose between imperative and functional approaches based on expressiveness clarity and performance Get familiar with complex concepts such as monads concurrency and immutability Apply functional Python to common Exploratory Data Analysis EDA programming problems Book Description If you re a Python developer who wants to discover how to take the power of functional programming FP and bring it into your own programs then this book is essential for you even if you know next to nothing about the paradigm Starting with a general overview of functional concepts you ll explore common functional features such as first class and higher order functions pure functions and more You ll see how these are accomplished in Python 3.6 to give you the core foundations you ll build upon After that you ll discover common

functional optimizations for Python to help your apps reach even higher speeds You ll learn FP concepts such as lazy evaluation using Python s generator functions and expressions Moving forward you ll learn to design and implement decorators to create composite functions You ll also explore data preparation techniques and data exploration in depth and see how the Python standard library fits the functional programming model Finally to top off your journey into the world of functional Python you ll look at the PyMonad project and some larger examples to put everything into perspective What you will learn Use Python s generator functions and generator expressions to work with collections in a non strict or lazy manner Utilize Python library modules including itertools functools multiprocessing and concurrent features to ensure efficient functional programs Use Python strings with object oriented suffix notation and prefix notation Avoid stateful classes with families of tuples Design and implement decorators to create composite functions Use functions such as max min map filter and sorted Write higher order functions Who This Book Is For This book is for Python developers who would like to perform Functional programming with Python Python Programming knowledge is assumed Table of Contents Understanding Functional Programming Introducing essential functional concepts Functions Iterators and Generators Working with Collections Higher Order Functions Recursions and Reductions Additional tuple techniques The itertools Module More Itertools Techniques The Functools Module Decorator Design Techniques The Multiprocessing and Threading Modules The Operator Module The PyMonad Library A Functional Approach to Web Services Optimizations and Improvements

Functional Programming For Dummies John Paul Mueller,2018-12-28 Your guide to the functional programming paradigm Functional programming mainly sees use in math computations including those used in Artificial Intelligence and gaming This programming paradigm makes algorithms used for math calculations easier to understand and provides a concise method of coding algorithms by people who aren t developers Current books on the market have a significant learning curve because they re written for developers by developers until now Functional Programming for Dummies explores the differences between the pure as represented by the Haskell language and impure as represented by the Python language approaches to functional programming for readers just like you The pure approach is best suited to researchers who have no desire to create production code but do need to test algorithms fully and demonstrate their usefulness to peers The impure approach is best suited to production environments because it s possible to mix coding paradigms in a single application to produce a result more quickly Functional Programming For Dummies uses this two pronged approach to give you an all in one approach to a coding methodology that can otherwise be hard to grasp Learn pure and impure when it comes to coding Dive into the processes that most functional programmers use to derive analyze and prove the worth of algorithms Benefit from examples that are provided in both Python and Haskell Glean the expertise of an expert author who has written some of the market leading programming books to date If you re ready to massage data to understand how things work in new ways you ve come to the right place Data Structures and Algorithms with Python Aadinath

Pothuvaal,2025-02-20 Dive into the Heart of Pythonic Algorithms and Data Structures offers a comprehensive guide designed to empower both beginners and seasoned developers Whether you re mastering the foundations of computer science or enhancing your problem solving skills this book provides a roadmap through the intricacies of efficient data organization and algorithmic prowess We introduce the versatility of Python setting the stage for an exploration of various data structures including arrays linked lists stacks queues trees and graphs Each chapter presents practical examples and Python code snippets for easy comprehension and application As the journey progresses we shift focus to algorithms covering sorting techniques searching methods and dynamic programming Real world applications and case studies bridge the gap between theory and practical implementation reinforcing each algorithm s relevance in solving tangible problems The book emphasizes a hands on approach encouraging active engagement with Python code and algorithms Whether you re preparing for coding interviews building scalable software or honing your programming skills this book equips you with the knowledge and confidence to navigate the challenging terrain of Data Structures and Algorithms using Python

Learning Functional Programming Jack Widman,2022-08-11 Learn how to think and write code like a functional programmer With this practical guide software developers familiar with object oriented programming will dive into the core concepts of functional programming and learn how to use both functional and OOP features together on large or complex software projects Author Jack Widman uses samples from Java Python C Scala and JavaScript to help you gain a new perspective and a set of tools for managing the complexity in your problem domain You ll be able to write code that s simpler reusable easier to test and modify and more consistently correct This book also shows you how to use patterns from category theory to help bridge the gap between OOP and functional programming Learn functional programming fundamentals and explore the way functional programmers approach problems Understand how FP differs from object oriented and imperative programming Use a set of practical applicable design patterns that model reality in a functional way Learn how to incorporate FP and OOP features into software projects Apply functional design patterns appropriately and use them to write correct robust and easily modifiable code

Learn Python by Building Data Science Applications Philipp Kats,David Katz,2019-08-30 Understand the constructs of the Python programming language and use them to build data science projects Key FeaturesLearn the basics of developing applications with Python and deploy your first data applicationTake your first steps in Python programming by understanding and using data structures variables and loopsDelve into Jupyter NumPy Pandas SciPy and sklearn to explore the data science ecosystem in PythonBook Description Python is the most widely used programming language for building data science applications Complete with step by step instructions this book contains easy to follow tutorials to help you learn Python and develop real world data science projects The secret sauce of the book is its curated list of topics and solutions put together using a range of real world projects covering initial data collection data analysis and production This Python book starts by taking you through the basics of programming right from variables and data types to classes and functions You ll

learn how to write idiomatic code and test and debug it and discover how you can create packages or use the range of built in ones You ll also be introduced to the extensive ecosystem of Python data science packages including NumPy Pandas scikit learn Altair and Datashader Furthermore you ll be able to perform data analysis train models and interpret and communicate the results Finally you ll get to grips with structuring and scheduling scripts using Luigi and sharing your machine learning models with the world as a microservice By the end of the book you ll have learned not only how to implement Python in data science projects but also how to maintain and design them to meet high programming standards What you will learnCode in Python using Jupyter and VS CodeExplore the basics of coding loops variables functions and classesDeploy continuous integration with Git Bash and DVCGet to grips with Pandas NumPy and scikit learnPerform data visualization with Matplotlib Altair and DatashaderCreate a package out of your code using poetry and test it with PyTestMake your machine learning model accessible to anyone with the web APIWho this book is for If you want to learn Python or data science in a fun and engaging way this book is for you You ll also find this book useful if you re a high school student researcher analyst or anyone with little or no coding experience with an interest in the subject and courage to learn fail and learn from failing A basic understanding of how computers work will be useful

Functional Python Programming, 2nd Edition Steven F. Lott,2019 **Python Programming Patterns** Thomas W. Christopher,2002 The real world guide to enterprise class Python development The right way to write Python using modularization toolkits frameworks abstract data types and object oriented techniques Includes more than 20 proven object oriented patterns for large scale Python development Detailed coverage of persistence concurrent programming metaprogramming functional programming and more Python isn t just a tool for creating short Web scripts and simple prototypes its advantages are equally compelling in large scale development In this book Thomas Christopher shows developers the best ways to write large programs with Python introducing powerful design patterns that deliver unprecedented levels of robustness scalability and reuse Python Programming Patterns teaches both the Python programming language and how to program in the large in Python using object oriented techniques Thomas Christopher demonstrates how to write Python code that leverages programming in the large software structuring techniques including modularization toolkits frameworks abstract data types and especially object orientation He presents more than 20 powerful object oriented design patterns for Python including creational structural and behavior patterns The book includes detailed coverage of key topics such as persistence concurrent programming and metaprogramming Python s term for reflection or introspection Christopher also presents useful fun

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