python™

Functional Python Programming

Use a functional approach to write succinct, expressive, and efficient Python code

Foreword by:
Ricardo Bánffy,
Software Engineer, Architect, Evangelist,
and Passionate Pythonista

Third Edition

Steven F. Lott

‹packt›

Functional Python Programming Lott Steven

Michael Driscoll

Functional Python Programming Lott Steven:

   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 at 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 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 FeaturesLearn how when and why to adopt functional elements in your projectsExplore the Python modules essential to functional programming like itertools and functoolsRevised to cover new features of Python 3 10 exercises at the end of every chapter and moreBook 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 learnUse Python s libraries to avoid the complexities of state changing classesLeverage built in higher order functions to avoid rewriting common algorithmsWrite generator functions to create lazy processingDesign and implement decorators for functional compositionMake use of Python type annotations to describe parameters and results of functionsApply functional programming to concurrency and web servicesExplore the PyMonad library for stateful simulationsWho 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   *Modern Python Cookbook* Steven F. Lott,2016-11-30 The latest in modern Python recipes for the busy modern programmer About This Book Develop succinct expressive programs in Python Learn the best practices and common idioms through carefully explained and structured recipes Discover new ways to apply Python for the new age of development Who This Book Is For The book is for web developers programmers enterprise programmers engineers big data scientist and so on If you are a beginner Python Cookbook will get you started If you are experienced it will expand your knowledge base A basic knowledge of programming would help What You Will Learn See the intricate details of the Python syntax and how to use it to your advantage Improve your code readability through functions in Python Manipulate data effectively using built in data structures Get acquainted with advanced programming techniques in Python Equip yourself with functional and statistical programming features Write proper tests to be sure a program works as advertised Integrate application software using Python In Detail Python is the preferred choice of developers engineers data scientists and hobbyists everywhere It is a great scripting language that can power your applications and provide great speed safety and scalability By exposing Python as a series of simple recipes you can gain insight into specific language features in a particular context Having a tangible context helps make the language or standard library feature easier to understand This book comes with over 100 recipes on the latest version of Python The recipes will benefit everyone ranging from beginner to an expert The book is broken down into 13 chapters that build from simple language concepts to more complex applications of the language The recipes will touch upon all the necessary Python concepts related to data structures OOP functional programming as well as statistical programming You will get acquainted with the nuances of Python syntax and how to effectively use the advantages that it offers You will end the book equipped with the knowledge of testing web services and configuration and application integration tips and tricks The recipes take a problem solution approach to resolve issues commonly faced by Python

programmers across the globe You will be armed with the knowledge of creating applications with flexible logging powerful configuration and command line options automated unit tests and good documentation Style and approach This book takes a recipe based approach where each recipe addresses specific problems and issues The recipes provide discussions and insights and an explanation of the problems   *Python Essentials* Steven F. Lott,2015-06-30 Python Essentials provides a vital tour of the most critical features of Python Starting with setup and installation you will soon dive into exploring built in library types Python s rich collection of operators and built in functions variables assignment and scoping rules From this foundation you will explore functions a crucial aspect of any programming language including considerable sophistication in defining parameters to a function and providing argument values Explore advanced functional programming using generator expressions comprehensions and generator functions Handle file input and output using web services and context managers exception handling and explore wider popular frameworks Through this concise and practical guide you will explore all you need to know to leverage this powerful and industry standard programming language   Python for Secret Agents Steven F. Lott,2014-08-26 If you are a Python beginner who is looking to learn the language through interesting projects this book is for you A basic knowledge of programming and statistics is beneficial to get the most out of the book   *Modern Python Cookbook* Steven F. Lott,2020-07-31 Complete recipes spread across 15 chapters to help you overcome commonly faced issues by Python for everybody across the globe Each recipe takes a problem solution approach to resolve for effective Python Key Features Develop expressive and effective Python programs Best practices and common idioms through carefully explained recipes Discover new ways to apply Python for data focused development Make use of Python s optional type annotations Book DescriptionPython is the preferred choice of developers engineers data scientists and hobbyists everywhere It is a great language that can power your applications and provide great speed safety and scalability It can be used for simple scripting or sophisticated web applications By exposing Python as a series of simple recipes this book gives you insight into specific language features in a particular context Having a tangible context helps make the language or a given standard library feature easier to understand This book comes with 133 recipes on the latest version of Python 3 8 The recipes will benefit everyone from beginners just starting out with Python to experts You ll not only learn Python programming concepts but also how to build complex applications The recipes will touch upon all necessary Python concepts related to data structures object oriented programming functional programming and statistical programming You will get acquainted with the nuances of Python syntax and how to effectively take advantage of it By the end of this Python book you will be equipped with knowledge of testing web services configuration and application integration tips and tricks You will be armed with the knowledge of how to create applications with flexible logging powerful configuration command line options automated unit tests and good documentation What you will learn See the intricate details of the Python syntax and how to use it to your advantage Improve your coding with Python readability through functions Manipulate data effectively using

built in data structures Get acquainted with advanced programming techniques in Python Equip yourself with functional and statistical programming features Write proper tests to be sure a program works as advertised Integrate application software using Python Who this book is for The Python book is for web developers programmers enterprise programmers engineers and big data scientists If you are a beginner this book will get you started If you are experienced it will expand your knowledge base A basic knowledge of programming would help *Pivot to Python* Steven F. Lott,2022-09-13 This book is aimed at people who know something about programming The idea is provide a quick read with a lot of examples It will get professionals started in a repeatable robust way They will of course have questions around some details of the presentation applying some of their experiences with other shabby programming languages to Python This book will be usable by someone who has a technical background and is interested in exploring programming and Python *Hands-On Reactive Programming with Python* Romain Picard,2018-10-25 A comprehensive guide to help you understand the principles of Reactive and asynchronous programming and its benefits Key FeaturesExplore the advantages of Reactive programmingUse concurrency and parallelism in RxPY to build powerful reactive applicationsDeploy and scale your reactive applications using DockerBook Description Reactive programming is central to many concurrent systems but it s famous for its steep learning curve which makes most developers feel like they re hitting a wall With this book you will get to grips with reactive programming by steadily exploring various concepts This hands on guide gets you started with Reactive Programming RP in Python You will learn abouta the principles and benefits of using RP which can be leveraged to build powerful concurrent applications As you progress through the chapters you will be introduced to the paradigm of Functional and Reactive Programming FaRP observables and observers and concurrency and parallelism The book will then take you through the implementation of an audio transcoding server and introduce you to a library that helps in the writing of FaRP code You will understand how to use third party services and dynamically reconfigure an application By the end of the book you will also have learned how to deploy and scale your applications with Docker and Traefik and explore the significant potential behind the reactive streams concept and you ll have got to grips with a comprehensive set of best practices What you will learnStructure Python code for better readability testing and performanceExplore the world of event based programmingGrasp the use of the most common operators in RxUnderstand reactive extensions beyond simple examplesMaster the art of writing reusable componentsDeploy an application on a cloud platform with Docker and TraefikWho this book is for If you are a Python developer who wants to learn Reactive programming to build powerful concurrent and asynchronous applications this book is for you Basic understanding of the Python language is all you need to understand the concepts covered in this book **Python for Secret Agents - Volume II** Steven Lott,2015-12-08 Gather analyze and decode data to reveal hidden facts using Python the perfect tool for all aspiring secret agents About This Book Discover the essential features of Python programming statements variables expressions and many of the built in data types

Use Python s standard library to do more sophisticated data gathering and analysis Written by a Python programming expert with over 35 years experience as a consultant teacher author and software developer Who This Book Is For This book is for Secret Agents who have some exposure to Python Our focus is on the Field Agents who are ready to do more sophisticated and complex programming in Python We ll stick to simple statistics for the most part A steady hand with a soldering iron is not required but a skilled field agent should be able to assemble a working Arduino circuit to gather their own sensor data What You Will Learn Upgrade Python to the latest version and discover its latest and greatest tools Use Python libraries to extract data from log files that are designed more for people to read than for automated analysis Summarize log files and extract meaningful information Gather data from social networking sites and leverage your experience of analyzing log files to summarize the data you find Extract text and images from social networking sites Parse the complex and confusing data structures in a PDF file to extract meaningful text that we can analyze Connect small intelligent devices to our computer to use them as remote sensors Use Python to analyze measurements from sensors to calibrate them and use sensors efficiently In Detail Python is easy to learn and extensible programming language that allows any manner of secret agent to work with a variety of data Agents from beginners to seasoned veterans will benefit from Python s simplicity and sophistication The standard library provides numerous packages that move beyond simple beginner missions The Python ecosystem of related packages and libraries supports deep information processing This book will guide you through the process of upgrading your Python based toolset for intelligence gathering analysis and communication You ll explore the ways Python is used to analyze web logs to discover the trails of activities that can be found in web and database servers We ll also look at how we can use Python to discover details of the social network by looking at the data available from social networking websites Finally you ll see how to extract history from PDF files which opens up new sources of data and you ll learn about the ways you can gather data using an Arduino based sensor device Style and approach Each chapter will include a background briefing that covers an essential Python technology After some in depth exploration of the features the chapter will conclude with a mission that is a concrete application of the Python tools and techniques covered   Mastering Object-Oriented Python Steven F. Lott,2019-06-14 Gain comprehensive insights into programming practices and code portability and reuse to build flexible and maintainable apps using object oriented principles Key FeaturesExtend core OOP techniques to increase integration of classes created with PythonExplore various Python libraries for handling persistence and object serializationLearn alternative approaches for solving programming problems with different attributes to address your problem domainBook Description Object oriented programming OOP is a relatively complex discipline to master and it can be difficult to see how general principles apply to each language s unique features With the help of the latest edition of Mastering Objected Oriented Python you ll be shown how to effectively implement OOP in Python and even explore Python 3 x Complete with practical examples the book guides you through the advanced concepts of OOP in Python and demonstrates how you can

apply them to solve complex problems in OOP You will learn how to create high quality Python programs by exploring design alternatives and determining which design offers the best performance Next you ll work through special methods for handling simple object conversions and also learn about hashing and comparison of objects As you cover later chapters you ll discover how essential it is to locate the best algorithms and optimal data structures for developing robust solutions to programming problems with minimal computer processing Finally the book will assist you in leveraging various Python features by implementing object oriented designs in your programs By the end of this book you will have learned a number of alternate approaches with different attributes to confidently solve programming problems in Python What you will learnExplore a variety of different design patterns for the __init__ methodLearn to use Flask to build a RESTful web serviceDiscover SOLID design patterns and principlesUse the features of Python 3 s abstract baseCreate classes for your own applicationsDesign testable code using pytest and fixturesUnderstand how to design context managers that leverage the with statementCreate a new type of collection using standard library and design techniquesDevelop new number types above and beyond the built in classes of numbersWho this book is for This book is for developers who want to use Python to create efficient programs A good understanding of Python programming is required to make the most out of this book Knowledge of concepts related to object oriented design patterns will also be useful   *Python Interviews* Michael Driscoll,2018-02-28 Mike Driscoll takes you on a journey talking to a hall of fame list of truly remarkable Python experts You ll be inspired every time by their passion for the Python language as they share with you their experiences contributions and careers in Python Key Features Hear from these key Python thinkers about the current status of Python and where it s heading in the future Listen to their close thoughts on significant Python topics such as Python s role in scientific computing and machine learning Understand the direction of Python and what needs to change for Python 4 Book Description Each of these twenty Python Interviews can inspire and refresh your relationship with Python and the people who make Python what it is today Let these interviews spark your own creativity and discover how you also have the ability to make your mark on a thriving tech community This book invites you to immerse in the Python landscape and let these remarkable programmers show you how you too can connect and share with Python programmers around the world Learn from their opinions enjoy their stories and use their tech tips Brett Cannon former director of the PSF Python core developer led the migration to Python 3 Steve Holden tireless Python promoter and former chairman and director of the PSF Carol Willing former director of the PSF and Python core developer Project Jupyter Steering Council member Nick Coghlan founding member of the PSF s Packaging Working Group and Python core developer Jessica McKellar former director of the PSF and Python activist Marc Andr Lemburg Python core developer and founding member of the PSF Glyph Lefkowitz founder of Twisted and fellow of the PSF Doug Hellmann fellow of the PSF creator of the Python Module of the Week blog Python community member since 1998 Massimo Di Pierro fellow of the PSF data scientist and the inventor of web2py Alex Martelli fellow of the PSF and co author

of Python in a Nutshell Barry Warsaw fellow of the PSF Python core developer since 1995 and original member of PythonLabs Tarek Ziad founder of Afpy and author of Expert Python Programming Sebastian Raschka data scientist and author of Python Machine Learning Wesley Chun fellow of the PSF and author of the Core Python Programming books Steven Lott Python blogger and author of Python for Secret Agents Oliver Schoenborn author of Pypubsub and wxPython mailing list contributor Al Sweigart bestselling author of Automate the Boring Stuff with Python and creator of the Python modules Pyperclip and PyAutoGUI Luciano Ramalho fellow of the PSF and the author of Fluent Python Mike Bayer fellow of the PSF creator of open source libraries including SQLAlchemy Jake Vanderplas data scientist and author of Python Data Science Handbook What you will learn How successful programmers think The history of Python Insights into the minds of the Python core team Trends in Python programming Who this book is for Python programmers and students interested in the way that Python is used past and present with useful anecdotes It will also be of interest to those looking to gain insights from top programmers   **Learning Reactive Programming with Java 8** Nickolay Tsvetinov,2015-06-24 Whether you are a Java expert or at a beginner level you ll benefit from this book because it will teach you a brand new way of coding and thinking The book starts with an explanation of what reactive programming is why it is so appealing and how we can integrate it in to Java It continues by introducing the new Java 8 syntax features such as lambdas and function references and some functional programming basics From this point on the book focuses on RxJava in depth It goes through creating Observables transforming filtering and combining them and concurrency and testing to finish with extending the library itself This book is a definite tutorial in RxJava filled with a lot of well described examples It explains reactive programming concepts in plain and readable language without scientific formulas and terms   <u>Python Object-Oriented Programming</u> Steven F. Lott,Dusty Phillips,2021-07-02 Level up your Python development by exploring advanced OOP concepts in this updated edition covering the latest design patterns OOP techniques and real world projects tailored for Python 3 11 and beyond Key Features Build an intuitive understanding of object oriented design from introductory to mature programs Learn the ins and outs of Python syntax libraries and best practices Examine a machine learning case study at the end of each chapter Book DescriptionPython Object Oriented Programming Fourth Edition is a practical guide to advancing your OOP skills with modern Python Going beyond the fundamentals it helps you work with Python as an OOP language explore both common and advanced design patterns and apply these concepts to data manipulation and testing of complex OOP systems Each chapter features newly written open ended exercises as well as a real world case study aligned with the improvements in Python 3 11 bringing faster execution and memory efficiency to your applications Authors Steven F Lott and Dusty Phillips provide a comprehensive illustrative tour of important OOP concepts such as inheritance composition and polymorphism showing how they integrate with Python s classes and data structures to facilitate good design The book also introduces two powerful automated testing systems unittest and pytest and explores Python s concurrent programming ecosystem in depth By the end

of the book you ll have a thorough understanding of how to think about and apply object oriented principles using Python syntax to create robust and reliable programs What you will learn Implement objects in Python by creating classes and defining methods Extend class functionality using inheritance Use exceptions to handle unusual situations cleanly Understand when to use object oriented features and more importantly when not to use them Discover several widely used design patterns and how they are implemented in Python Uncover the simplicity of unit and integration testing and understand why they are so important Learn to statically type check your dynamic code Understand concurrency with asyncio and how it speeds up programs Who this book is for If you are new to object oriented programming or if you have basic Python skills and want to learn how and when to correctly apply OOP principles in Python 3 11 and beyond this is the book for you Mid level Python developers software engineers and data scientists will benefit from its practical guidance Complete with a solid introduction to Python this book proves to be a useful resource for experienced object oriented programmers transitioning from other languages or seeking a leg up in the new world of Python Minimal previous experience with Python programming is necessary   *Modern Python Cookbook* Steven F. Lott,2024-07-31 Enhance your Python skills with the third edition of Modern Python Cookbook with 130 new and updated recipes covering Python 3 12 including new coverage on graphics visualizations dependencies virtual environments and more Purchase of the print or Kindle book includes a free eBook in PDF format Key Features New chapters on type matching data visualization dependency management and more Comprehensive coverage of Python 3 12 with updated recipes and techniques Provides practical examples and detailed explanations to solve real world problems efficiently Book DescriptionPython is the go to language for developers engineers data scientists and hobbyists worldwide Known for its versatility Python can efficiently power applications offering remarkable speed safety and scalability This book distills Python into a collection of straightforward recipes providing insights into specific language features within various contexts making it an indispensable resource for mastering Python and using it to handle real world use cases The third edition of Modern Python Cookbook provides an in depth look into Python 3 12 offering more than 140 new and updated recipes that cater to both beginners and experienced developers This edition introduces new chapters on documentation and style data visualization with Matplotlib and Pyplot and advanced dependency management techniques using tools like Poetry and Anaconda With practical examples and detailed explanations this cookbook helps developers solve real world problems optimize their code and get up to date with the latest Python features What you will learn Master core Python data structures algorithms and design patterns Implement object oriented designs and functional programming features Use type matching and annotations to make more expressive programs Create useful data visualizations with Matplotlib and Pyplot Manage project dependencies and virtual environments effectively Follow best practices for code style and testing Create clear and trustworthy documentation for your projects Who this book is for This Python book is for web developers programmers enterprise programmers engineers

and big data scientists If you are a beginner this book offers helpful details and design patterns for learning Python If you are experienced it will expand your knowledge base Fundamental knowledge of Python programming and basic programming principles will be helpful **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 **Python Real-World Projects** Steven F. Lott,2023-09-15 Develop Python applications using an enterprise based approach with unit and acceptance tests by following agile methods to create a minimum viable product MVP and iteratively add features Key Features Master Python and related technologies by working on 12 hands on projects Accelerate your career by building a personal project portfolio Explore data acquisition preparation and analysis applications Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn today s competitive job market a project portfolio often outshines a traditional resume Python Real World Projects empowers you to get to grips with crucial Python concepts while building complete

modules and applications With two dozen meticulously designed projects to explore this book will help you showcase your Python mastery and refine your skills Tailored for beginners with a foundational understanding of class definitions module creation and Python s inherent data structures this book is your gateway to programming excellence You ll learn how to harness the potential of the standard library and key external projects like JupyterLab Pydantic pytest and requests You ll also gain experience with enterprise oriented methodologies including unit and acceptance testing and an agile development approach Additionally you ll dive into the software development lifecycle starting with a minimum viable product and seamlessly expanding it to add innovative features By the end of this book you ll be armed with a myriad of practical Python projects and all set to accelerate your career as a Python programmer What you will learn Explore core deliverables for an application including documentation and test cases Discover approaches to data acquisition such as file processing RESTful APIs and SQL queries Create a data inspection notebook to establish properties of source data Write applications to validate clean convert and normalize source data Use foundational graphical analysis techniques to visualize data Build basic univariate and multivariate statistical analysis tools Create reports from raw data using JupyterLab publication tools Who this book is forThis book is for beginner to intermediate level Python programmers looking to enhance their resume by adding a portfolio of 12 practical projects A basic understanding of the Python language and its aligned technologies is a must The book helps you polish your Python skills and project building prowess without delving into basic Python fundamentals

Bioinformatics with Python Cookbook Shane Brubaker,2025-12-19 Enhance your bioinformatics toolbox with practical Python recipes tips and tricks for key tasks like aligning sequence data calling variants and building Infrastructure as Code Key Features Perform sequence analysis at primary secondary and tertiary levels using Python libraries Solve real world problems in the fields of phylogenetics protein design and annotation Use language models and other AI techniques to work with multimodal bioinformatics data Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIf you ve ever felt overwhelmed by the vast number of Python tools available for bioinformatics you re not alone The Bioinformatics with Python Cookbook is a recipe based guide that explores practical approaches for solving classic bioinformatics challenges showing you which Python packages work best for each task You ll start with the essential Python libraries for data science and bioinformatics then move through key workflows in sequencing analysis quality control alignment and variant calling Along the way you ll pick up modern coding practices explore recent advances in bioinformatics research and gain hands on experience with libraries such as NumPy pandas and sci kit learn This book walks you through core bioinformatics tasks such as phylogenetic analysis and population genomics while familiarizing you with the wealth of modern public bioinformatics databases You ll learn cloud computing approaches used by researchers set up workflow orchestration systems for controlling bioinformatics pipelines and see how AI and the use of large language models LLMs are reshaping the field right down to designing proteins and DNA By the end of this book you ll be ready to apply

Python for real bioinformatics work and launch bioinformatics pipelines for your research What you will learn Process analyze and align sequencing data Call variants and interpret their biological meaning Use modern cloud infrastructure to launch bioinformatics workflows Ingest clean and transform data efficiently Explore how AI is shaping the future of bioinformatics Leverage imaging data for biological insights Apply single cell sequencing to cluster and compare gene expression Who this book is for This book is for early to mid level practitioners in bioinformatics data science and software engineering who want to improve their skills and apply practical solutions to real world problems You should have a basic understanding of biology including DNA proteins and cell structure as well as Python programming and software engineering techniques While prior exposure to machine learning with Python is not essential experience with a cloud computing platform AWS GCP or Azure will be helpful   *Mastering Vim* Ruslan Osipov,2018-11-30 Mastering Vim reviewed by Bram Moolenaar the creator of Vim covers usage of Vim and Neovim showcases relevant plugins and teaches Vimscript Key Features Expert Vim and Vimscript techniques to work with Python and other development environment Accomplish end to end software development tasks with Neovim and Vim plugins Understand best practices for various facets of projects like version control building and testing Book DescriptionVim is a ubiquitous text editor that can be used for all programming languages It has an extensive plugin system and integrates with many tools Vim offers an extensible and customizable development environment for programmers making it one of the most popular text editors in the world Mastering Vim begins with explaining how the Vim editor will help you build applications efficiently With the fundamentals of Vim you will be taken through the Vim philosophy As you make your way through the chapters you will learn about advanced movement text operations and how Vim can be used as a Python or any other language for that matter IDE The book will then cover essential tasks such as refactoring debugging building testing and working with a version control system as well as plugin configuration and management In the concluding chapters you will be introduced to additional mindset guidelines learn to personalize your Vim experience and go above and beyond with Vimscript By the end of this book you will be sufficiently confident to make Vim or its fork Neovim your first choice when writing applications in Python and other programming languages What you will learn Get the most recent Vim GVim and Neovim versions installed Become efficient at navigating and editing text Uncover niche Vim plugins and pick the best ones Discover multiple ways of organizing plugins Explore and tailor Vim UI to fit your needs Organize and maintain Vim configuration across environments Write scripts to complement your workflow using Vimscript Who this book is for Mastering Vim is written for beginner intermediate and expert developers The book will teach you to effectively embed Vim in your daily workflow No prior experience with Python or Vim is required   **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 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 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 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 at look at the PyMonad project and some larger examples to put everything into perspective 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

50 Algorithms Every Programmer Should Know Imran Ahmad,2023-09-29 Delve into the realm of generative AI and large language models LLMs while exploring modern deep learning techniques including LSTMs GRUs RNNs with new chapters included in this 50% new edition overhaul Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Familiarize yourself with advanced deep learning architectures Explore newer topics such as handling hidden bias in data and algorithm explainability Get to grips with different programming algorithms and choose the right data structures for their optimal implementation Book DescriptionThe ability to use algorithms to solve real world problems is a must have skill for any developer or programmer This book will help you not only to develop the skills to select and use an algorithm to tackle problems in the real world but also to understand how it works You ll start with an introduction to algorithms and discover various algorithm design techniques before exploring how to implement different types of algorithms with the help of practical examples As you advance you ll learn about linear programming page ranking and graphs and will then work with machine learning algorithms to understand the math and logic behind them Case studies will show you how to apply these algorithms optimally before you focus on deep learning algorithms and learn about different types of deep

learning models along with their practical use You will also learn about modern sequential models and their variants algorithms methodologies and architectures that are used to implement Large Language Models LLMs such as ChatGPT Finally you ll become well versed in techniques that enable parallel processing giving you the ability to use these algorithms for compute intensive tasks By the end of this programming book you ll have become adept at solving real world computational problems by using a wide range of algorithms What you will learn Design algorithms for solving complex problems Become familiar with neural networks and deep learning techniques Explore existing data structures and algorithms found in Python libraries Implement graph algorithms for fraud detection using network analysis Delve into state of the art algorithms for proficient Natural Language Processing illustrated with real world examples Create a recommendation engine that suggests relevant movies to subscribers Grasp the concepts of sequential machine learning models and their foundational role in the development of cutting edge LLMs Who this book is for This computer science book is for programmers or developers who want to understand the use of algorithms for problem solving and writing efficient code Whether you are a beginner looking to learn the most used algorithms concisely or an experienced programmer looking to explore cutting edge algorithms in data science machine learning and cryptography you ll find this book useful Python programming experience is a must knowledge of data science will be helpful but not necessary

Functional Python Programming Lott Steven Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Functional Python Programming Lott Steven**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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