

Read Book The Python Workbook A Brief Introduction With Exercises And Solutions By Ben Stephenson 28 Feb 2015 Hardcover

## **The Python Workbook A Brief Introduction With Exercises And Solutions By Ben Stephenson 28 Feb 2015 Hardcover**

Would you like to gather big datasets, analyze them, and visualize the results, all in one program? If this describes you, then Introduction to Python Programming for Business and Social Science Applications is the book for you. Authors Frederick Kaefer and Paul Kaefer walk you through each step of the Python package installation and analysis process, with frequent exercises throughout so you can immediately try out the functions you've learned. Written in straightforward language for those with no programming background, this book will teach you how to use Python for your research and data analysis. Instead of teaching you the principles and practices of programming as a whole, this application-oriented text focuses on only what you need to know to research and answer social science questions. The text features two types of examples, one set from the General Social Survey and one set from a large taxi trip dataset from a major metropolitan area, to help readers understand the possibilities of working with Python. Chapters on installing and working within a programming

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environment, basic skills, and necessary commands will get you up and running quickly, while chapters on programming logic, data input and output, and data frames help you establish the basic framework for conducting analyses. Further chapters on web scraping, statistical analysis, machine learning, and data visualization help you apply your skills to your research. More advanced information on developing graphical user interfaces (GUIs) help you create functional data products using Python to inform general users of data who don't work within Python. First there was IBM® SPSS®, then there was R, and now there's Python. Statistical software is getting more aggressive - let authors Frederick Kaefer and Paul Kaefer help you tame it with Introduction to Python Programming for Business and Social Science Applications.

This is a full course in python and with the latest updated codes to fit your needs. It doesn't matter whether you are a beginner, intermediate or expert because this book is a step by step course that guarantees mastery in python programming

A collection of progressively more complex Python programming challenges to help students learn to code in a naturally engaging way.

Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on

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guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing

Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

Cut through the noise and get real results with a step-by-step approach to learning Python 3.X programming Key Features Ideal for the Python beginner who is getting started for the first time A step-by-step Python tutorial with exercises and activities that help build key skills Structured to let you progress at your own pace, on your own terms Use your physical print copy to redeem free

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access to the online interactive edition Book Description You already know you want to learn Python, and a smarter way to learn Python 3 is to learn by doing. The Python Workshop focuses on building up your practical skills so that you can work towards building up your machine learning skills as a data scientist, write scripts that help automate your life and save you time, or even create your own games and desktop applications. You'll learn from real examples that lead to real results. Throughout The Python Workshop, you'll take an engaging step-by-step approach to understanding Python. You won't have to sit through any unnecessary theory. If you're short on time you can jump into a single exercise each day or spend an entire weekend learning about Python scripting. It's your choice. Learning on your terms, you'll build up and reinforce key skills in a way that feels rewarding. Every physical print copy of The Python Workshop unlocks access to the interactive edition. With videos detailing all exercises and activities, you'll always have a guided solution. You can also benchmark yourself against assessments, track progress, and receive free content updates. You'll even earn a secure credential that you can share and verify online upon completion. It's a premium learning experience that's included with your printed copy. To redeem, follow the instructions located at the start of your Python book. Fast-paced and direct, The Python Workshop is the ideal companion for Python beginners. You'll

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build and iterate on your code like a software developer, learning along the way. This process means that you'll find that your new skills stick, embedded as best practice. A solid foundation for the years ahead. What you will learn Learn how to write clean and concise code with Python 3 Understand classes and object-oriented programming Tackle entry-level data science and create engaging visualizations Use Python to create responsive, modern web applications Automate essential day-to-day tasks with Python scripts Get started with predictive Python machine learning Who this book is for This book is designed for professionals, students, and hobbyists who want to learn Python and apply it to solve challenging real-world problems. Although this is a beginner's book, it will help if you already know standard programming topics, such as variables, if-else statements, and functions. Experience with another object-oriented program is beneficial, but not mandatory.

Python is a general purpose programming used by many start-ups. Its design emphasizes code readability, notably using significant whitespace. Did you know Mozilla Firefox, PBS, Reddit, and even NASA! All use Python programming for their websites? Providing constructs whether small or large scale Python is versatile and can be used in a variety of ways.

The second edition of this best-selling Python book (over 500,000 copies sold!)

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uses Python 3 to teach even the technically uninclined how to write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if you could have your computer do them for you? In this fully revised second edition of the best-selling classic Automate the Boring Stuff with Python, you'll learn how to use Python to write programs that do in minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically updating CSV files. You'll learn how to create programs that effortlessly perform useful feats of automation to:

- Search for text in a file or across multiple files
- Create, update, move, and rename files and folders
- Search the Web and download online content
- Update and format data in Excel spreadsheets of any size
- Split, merge, watermark, and encrypt PDFs
- Send email responses and

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text notifications • Fill out online forms Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks. Don't spend your time doing work a well-trained monkey could do. Even if you've never written a line of code, you can make your computer do the grunt work. Learn how in Automate the Boring Stuff with Python, 2nd Edition.

THIS TEXTBOOK is about computer science. It is also about Python. However, there is much more. The study of algorithms and data structures is central to understanding what computer science is all about. Learning computer science is not unlike learning any other type of difficult subject matter. The only way to be successful is through deliberate and incremental exposure to the fundamental ideas. A beginning computer scientist needs practice so that there is a thorough understanding before continuing on to the more complex parts of the curriculum. In addition, a beginner needs to be given the opportunity to be successful and gain confidence. This textbook is designed to serve as a text for a first course on data structures and algorithms, typically taught as the second course in the computer science curriculum. Even though the second course is considered more advanced than the first course, this book assumes you are beginners at this

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level. You may still be struggling with some of the basic ideas and skills from a first computer science course and yet be ready to further explore the discipline and continue to practice problem solving. We cover abstract data types and data structures, writing algorithms, and solving problems. We look at a number of data structures and solve classic problems that arise. The tools and techniques that you learn here will be applied over and over as you continue your study of computer science.

The only way to master a skill is to practice. In Python Workout, author Reuven M. Lerner guides you through 50 carefully selected exercises that invite you to flex your programming muscles. As you take on each new challenge, you'll build programming skill and confidence. Summary The only way to master a skill is to practice. In Python Workout, author Reuven M. Lerner guides you through 50 carefully selected exercises that invite you to flex your programming muscles. As you take on each new challenge, you'll build programming skill and confidence. The thorough explanations help you lock in what you've learned and apply it to your own projects. Along the way, Python Workout provides over four hours of video instruction walking you through the solutions to each exercise and dozens of additional exercises for you to try on your own. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology To become a champion Python programmer you need to work out, building mental muscle with your hands on the keyboard. Each carefully selected exercise in this unique book adds to your Python prowess—one important skill at a time. About the book Python Workout presents 50 exercises that focus on

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key Python 3 features. In it, expert Python coach Reuven Lerner guides you through a series of small projects, practicing the skills you need to tackle everyday tasks. You'll appreciate the clear explanations of each technique, and you can watch Reuven solve each exercise in the accompanying videos. What's inside 50 hands-on exercises and solutions Coverage of all Python data types Dozens more bonus exercises for extra practice About the reader For readers with basic Python knowledge. About the author Reuven M. Lerner teaches Python and data science to companies around the world. Table of Contents 1 Numeric types 2 Strings 3 Lists and tuples 4 Dictionaries and sets 5 Files 6 Functions 7 Functional programming with comprehensions 8 Modules and packages 9 Objects 10 Iterators and generators Inside this book you will find all the basic notions to start with Python and all the programming concepts to develop programs and applications. With our proven strategies you will write efficient Python codes in less than a week!

Can You Learn Python In A Fun And Practical Way? With This Book, You Can! Do you want to learn one of the most in-demand programming languages of today and start an exciting career in data science, web development, or another field of your choice? Learn Python! Python is easy to read because the code looks a lot like regular English, but don't let this simplicity deceive you: it's one of the most powerful and versatile programming languages out there! In fact, it powers many of your favorite websites and services, including Instagram, Spotify, and even Google! This book takes you on a practical journey through the amazing features of Python. Unlike books that focus on theoretical concepts only, this book will show you how Python is actually used - and encourage you to get creative! Here's what you'll find in this book: Practical programming exercises that will help you apply programming concepts to real-

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life situations Debugging exercises that will teach you to notice errors in Python code quickly  
Fun projects that will really test your knowledge and motivate you to practice even more  
Valuable tips for mastering Python quickly An answer key to check if you were right Learning the basics of any programming language may seem a bit boring at first, but once you've written your first program that really does something - even if it's just printing text on the screen - your excitement and motivation will become unstoppable and you'll yearn for more and more programming challenges that will hone your skills! This book is a perfect companion for any beginning Python programmer. If you've tried learning Python before but got discouraged by too much theory... this book is guaranteed to rekindle your interest in Python programming! Are you ready to start writing Python apps that really work?

Python for Everybody is designed to introduce students to programming and software development through the lens of exploring data. You can think of the Python programming language as your tool to solve data problems that are beyond the capability of a spreadsheet. Python is an easy to use and easy to learn programming language that is freely available on Macintosh, Windows, or Linux computers. So once you learn Python you can use it for the rest of your career without needing to purchase any software. This book uses the Python 3 language. The earlier Python 2 version of this book is titled "Python for Informatics: Exploring Information". There are free downloadable electronic copies of this book in various formats and supporting materials for the book at [www.pythonlearn.com](http://www.pythonlearn.com). The course materials are available to you under a Creative Commons License so you can adapt them to teach your own Python course.

Python for Software Design is a concise introduction to software design using the Python

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programming language. The focus is on the programming process, with special emphasis on debugging. The book includes a wide range of exercises, from short examples to substantial projects, so that students have ample opportunity to practice each new concept.

The second edition of the best-selling Python book in the world (over 1 million copies sold!). A fast-paced, no-nonsense guide to programming in Python. Updated and thoroughly revised to reflect the latest in Python code and practices. Python Crash Course is the world's best-selling guide to the Python programming language. This fast-paced, thorough introduction to programming with Python will have you writing programs, solving problems, and making things that work in no time. In the first half of the book, you'll learn basic programming concepts, such as variables, lists, classes, and loops, and practice writing clean code with exercises for each topic. You'll also learn how to make your programs interactive and test your code safely before adding it to a project. In the second half, you'll put your new knowledge into practice with three substantial projects: a Space Invaders-inspired arcade game, a set of data visualizations with Python's handy libraries, and a simple web app you can deploy online. As you work through the book, you'll learn how to:

- Use powerful Python libraries and tools, including Pygame, Matplotlib, Plotly, and Django
- Make 2D games that respond to keypresses and mouse clicks, and that increase in difficulty
- Use data to generate interactive visualizations
- Create and customize web apps and deploy them safely online
- Deal with mistakes and errors so you can solve your own programming problems

If you've been thinking about digging into programming, Python Crash Course will get you writing real programs fast. Why wait any longer? Start your engines and code!

How to learn Python during your coffee break? Coffee Break Python is a new step-by-step

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system to teach you how to learn Python faster, smarter, and better. You do nothing but solving one practical Python puzzle as you enjoy your morning coffee. Why should you care about puzzle-based learning? Educational research shows that practical low-stake puzzles and tests help you to learn faster, smarter, and better. We used this for coding in Coffee Break Python and our academy Finxter.com. 13,000 online Python students have already improved their coding skills with our unique puzzle-based learning technique: "I very much enjoy your Finxter.com website because it has some real meat to the problems. Thank you so much for doing this project! I love it!" --David C. "Your site is awesome." --Victor A. "I found Finxter.com an excellent tool to brush up on my Python skills. I totally love the setup of playing against the questions - such a wonderful idea --Jesper R. Why should you read this book? As you work through Coffee Break Python, your Python expertise will grow--one coffee at a time. It's packed with 50 Python puzzles, 10 practical learning tips, 5 compressed cheat sheets, and 1 new way to measure your coding skills. You will train wildly important Python topics such as Arithmetic operations: integer & float division, and modular arithmetic; Language elements: branching, loops, keywords, and functions; Data structures: integer, float, string, list, set, dictionary, and graph; Sequence operators: indexing, concatenation, slicing, and built-in functions; Function \*arguments: default \*, arbitrary \*, unpacking \*, keyword \*; Set operations: lambda, filter, map, and intersection functions; and Algorithms: recursion, Fibonacci, matrix search, bubble sort, quick sort, lexicographical sort, guess & check, binary search, and graph traversal. As a bonus, you will track your individual Python coding skill level throughout the book. Who should read this book? You are slightly beyond beginner-level in Python. For example, You have already experience with another programming language--it's time to tackle Python. You are a

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professional engineer and want to brush up your Python skills. You are a student and need to get better at Python for academic courses. So how do you spend your Coffee Break? Python! This workbook is designed to help those learning and teaching Computer Science at secondary school level. The aim of the book is to help students build fluency in their Python programming. The book would suit students who have already been introduced to the three basic programming constructs of structured programming, namely sequence, selection and iteration. The learning curve for programming can be quite steep and this book aims to ease this transition by encouraging practise and gradually introducing more complex concepts such as lists and 2D lists and file writing. Originally, the book was written for 14-16 year old students studying for their GCSE Computer Science programming exam. However, a wide range of students and teachers will find this book useful. The Little Book of Algorithms concisely presents eighteen problems which computer science students will commonly encounter. These problems are solved efficiently using programs written using Python. However, reading these programs is not enough, so this new version of the book now comes with 48 challenges so that you can apply what you have learnt in various ways: Writing your own programs Solving Parson's puzzles Completing quizzes Tracing Gap fills This range of exercises will help you to become more fluent in Python and ensure that you are comfortable with any question format in a programming exam. Solutions are provided in the back and a series of video tutorials is also provided so that you can code along with the author, hearing his thought processes as he programs. After finishing this book, you should feel more familiar with: While loops and For loops Concatenating different data types Using procedures and functions Working with 1D and 2D lists and arrays File reading and writing This book will show you how to write better Python

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programs and will expose you to the key skills that are required to do well in any secondary school programming assignment or exam

The Python Workbook A Brief Introduction with Exercises and Solutions Springer

Get a comprehensive, in-depth introduction to the core Python language with this hands-on book. Based on author Mark Lutz's popular training course, this updated fifth edition will help you quickly write efficient, high-quality code with Python. It's an ideal way to begin, whether you're new to programming or a professional developer versed in other languages. Complete with quizzes, exercises, and helpful illustrations, this easy-to-follow, self-paced tutorial gets you started with both Python 2.7 and 3.3—the latest releases in the 3.X and 2.X lines—plus all other releases in common use today. You'll also learn some advanced language features that recently have become more common in Python code. Explore Python's major built-in object types such as numbers, lists, and dictionaries Create and process objects with Python statements, and learn Python's general syntax model Use functions to avoid code redundancy and package code for reuse Organize statements, functions, and other tools into larger components with modules Dive into classes: Python's object-oriented programming tool for structuring code Write large programs with Python's exception-handling model and development tools Learn advanced Python tools, including decorators, descriptors, metaclasses, and Unicode processing

Can You Learn Python In A Fun And Practical Way? With This Book, You Can! Do you want to learn one of the most in-demand programming languages of today and start an exciting career in data science, web development, or another field of your choice? Learn Python! Python is easy to read because the code looks a lot like regular English, but don't let this simplicity

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deceive you: it's one of the most powerful and versatile programming languages out there! In fact, it powers many of your favorite websites and services, including Instagram, Spotify, and even Google! This book takes you on a practical journey through the amazing features of Python. Unlike books that focus on theoretical concepts only, this book will show you how Python is actually used - and encourage you to get creative! Here's what you'll find in this book: Practical programming exercises that will help you apply programming concepts to real-life situations Debugging exercises that will teach you to notice errors in Python code quickly Fun projects that will really test your knowledge and motivate you to practice even more Valuable tips for mastering Python quickly An answer key to check if you were right Learning the basics of any programming language may seem a bit boring at first, but once you've written your first program that really does something - even if it's just printing text on the screen - your excitement and motivation will become unstoppable and you'll yearn for more and more programming challenges that will hone your skills! This book is a perfect companion for any beginning Python programmer. If you've tried learning Python before but got discouraged by too much theory... this book is guaranteed to rekindle your interest in Python programming! Are you ready to start writing Python apps that really work? Scroll up, click on "Buy Now with 1-Click", and Get Your Copy Now!

I was very frustrated with IT Books. The main issue with all book dealing with Python is poorly-leveled. So I've tried to make a book for everyone. You don't need any background to understand it. Python is for everyone.

For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this

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data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use:

- IPython and Jupyter: provide computational environments for data scientists using Python
- NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python
- Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python
- Matplotlib: includes capabilities for a flexible range of data visualizations in Python
- Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms

This student-friendly textbook encourages the development of programming skills through active practice by focusing on exercises that support hands-on learning. The Python Workbook provides a compendium of 186 exercises, spanning a variety of academic disciplines and everyday situations. Solutions to selected exercises are also provided, supported by brief annotations that explain the technique used to solve the problem, or highlight a specific point of Python syntax. This enhanced new edition has been thoroughly updated and expanded with additional exercises, along with concise introductions that outline the core concepts needed to solve them. The exercises and solutions require no prior background knowledge, beyond the material covered in a typical introductory Python programming course. Features: Uses an

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accessible writing style and easy-to-follow structure Includes a mixture of classic exercises from the fields of computer science and mathematics, along with exercises that connect to other academic disciplines Presents the solutions to approximately half of the exercises Provides annotations alongside the solutions, which explain the approach taken to solve the problem and relevant aspects of Python syntax Offers a variety of exercises of different lengths and difficulties Contains exercises that encourage the development of programming skills using if statements, loops, basic functions, lists, dictionaries, files, and recursive functions Undergraduate students enrolled in their first programming course and wishing to enhance their programming abilities will find the exercises and solutions provided in this book to be ideal for their needs. Dr. Ben Stephenson is a Teaching Professor in the Department of Computer Science at the University of Calgary, AB, Canada. His other publications include the Springer textbook Fundamentals of Discrete Math for Computer Science: A Problem-Solving Primer. Solve common and not-so-common financial problems using Python libraries such as NumPy, SciPy, and pandas Key Features Use powerful Python libraries such as pandas, NumPy, and SciPy to analyze your financial data Explore unique recipes for financial data analysis and processing with Python Estimate popular financial models such as CAPM and GARCH using a problem-solution approach Book Description Python is one of the most popular programming languages used in the financial industry, with a huge set of accompanying libraries. In this book, you'll cover different ways of downloading financial data and preparing it for modeling. You'll calculate popular indicators used in technical analysis, such as Bollinger Bands, MACD, RSI, and backtest automatic trading strategies. Next, you'll cover time series analysis and models, such as exponential smoothing, ARIMA, and GARCH (including multivariate

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specifications), before exploring the popular CAPM and the Fama-French three-factor model. You'll then discover how to optimize asset allocation and use Monte Carlo simulations for tasks such as calculating the price of American options and estimating the Value at Risk (VaR). In later chapters, you'll work through an entire data science project in the financial domain. You'll also learn how to solve the credit card fraud and default problems using advanced classifiers such as random forest, XGBoost, LightGBM, and stacked models. You'll then be able to tune the hyperparameters of the models and handle class imbalance. Finally, you'll focus on learning how to use deep learning (PyTorch) for approaching financial tasks. By the end of this book, you'll have learned how to effectively analyze financial data using a recipe-based approach. What you will learn

- Download and preprocess financial data from different sources
- Backtest the performance of automatic trading strategies in a real-world setting
- Estimate financial econometrics models in Python and interpret their results
- Use Monte Carlo simulations for a variety of tasks such as derivatives valuation and risk assessment
- Improve the performance of financial models with the latest Python libraries
- Apply machine learning and deep learning techniques to solve different financial problems
- Understand the different approaches used to model financial time series data

Who this book is for This book is for financial analysts, data analysts, and Python developers who want to learn how to implement a broad range of tasks in the finance domain. Data scientists looking to devise intelligent financial strategies to perform efficient financial analysis will also find this book useful. Working knowledge of the Python programming language is mandatory to grasp the concepts covered in the book effectively.

Python Crash Course is a fast-paced, thorough introduction to Python that will have you writing

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programs, solving problems, and making things that work in no time. In the first half of the book, you'll learn about basic programming concepts, such as lists, dictionaries, classes, and loops, and practice writing clean and readable code with exercises for each topic. You'll also learn how to make your programs interactive and how to test your code safely before adding it to a project. In the second half of the book, you'll put your new knowledge into practice with three substantial projects: a Space Invaders–inspired arcade game, data visualizations with Python's super-handful libraries, and a simple web app you can deploy online. As you work through Python Crash Course you'll learn how to: –Use powerful Python libraries and tools, including matplotlib, NumPy, and Pygal –Make 2D games that respond to keypresses and mouse clicks, and that grow more difficult as the game progresses –Work with data to generate interactive visualizations –Create and customize Web apps and deploy them safely online –Deal with mistakes and errors so you can solve your own programming problems If you've been thinking seriously about digging into programming, Python Crash Course will get you up to speed and have you writing real programs fast. Why wait any longer? Start your engines and code! Uses Python 2 and 3

Python Programming 2019 - Fully Updated. Python Programming - A Step-by-Step Guide from Absolute Beginners to Complete Guide for intermediates and Advanced is about getting up and running fast with Python. You want to learn the language quickly to be productive when you use it to do your real work, which could be anything. Unlike most books on the subject, it starts from the beginning showing you the differences between Python and other languages. As a result, you get an understanding of what needs to be done from the beginning, using practical examples and spending a lot of time doing really useful tasks. You can also get help installing

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Python on your particular system. When you have a good installation on any platform you are using, start with the basics and go up. When you finish reading the examples in this book, you will need to write simple programs and perform different tasks using Python. You can use Python to meet specific needs in the work environment. If you are a beginner in a hurry to start using Python as quickly as possible, you can move on to Chapter 2 with the knowledge that you will find some confusing topics later. Moving on to Chapter 3 is possible if you have Python already installed, but be sure to read at least Chapter 2 to find out what assumptions have been made during the writing of this book. Readers who have been using Python can save time by going directly to Chapter 5. If necessary, you have the choice always to go back to the previous chapters. However, it is essential to understand how each example works before moving on to the next one. Each example has lessons that are important to you, and you may lose important content if you start to miss too much information. We tried to keep the book as independent as possible. So, this book is an option! ENJOY THE READING!!! THANK YOU!!!  
Scroll Up and Click the Buy Now Button!

This book is the chess grandmaster way of learning Python. It offers you 127 unique and brand-new Python puzzles. Every puzzle points to gaps in your knowledge, challenges you to guess a solution, and then explains potential solutions, in an easy-to-understand manner: ~~~ # Here's one example puzzle: `my_list = [1, 1, 1, 1] my_list[1::2] = [2, 3] print(my_list)` # What's the output of this code snippet? ~~~ An easy, fun, and effective way of learning Python -- day after day -- in your COFFEE BREAK PYTHON! Here's what research says about puzzle-based learning: "Students who were quizzed after studying a short text could recall significantly more information than students who were asked to reread it" -- Karpicke, 2007, Elsevier Journal of

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Memory and Language Practice testing is scientifically proven to generate up to 44% better learning retention and efficiency. Simply put: quizzes and puzzles work! More than 100,000 Finxters and thousands of "Coffee Break Python" book customers have already successfully improved their skills with code puzzles. Learning does not happen in a linear and orderly manner. It's a probabilistic, chaotic, and iterative process of creating knowledge gaps in your brain -- and filling them with just the right information you need. That's the premise of the "Coffee Break Python" textbook series. What will you get out of the book? Improve your level of deep Python code understanding. Surprise your peers with your newly acquired code speed reading skills. Enjoy the small daily doses of intellectual challenges. A Finxter once called it "Sudoku for coders"! ;) Improve your brain's working memory by hammering down the most important concepts. Learn all the basic Python syntax elements. Discover your own skill level by tracking your puzzle-solving performance. Compare your skill level against other coders: are you a grandmaster of code? Enjoy the fun of rushing over Python -- from "hello world" to "recursive Quicksort". Get the best of all Finxter Python cheat sheets to revive 80% of the Python features in 20% of the time. Get your dream job and rock future code interviews! And take one step forward mastering the most popular programming language ON THE PLANET! This student-friendly textbook encourages the development of programming skills through active practice by focusing on exercises that support hands-on learning. The Python Workbook provides a compendium of 186 exercises, spanning a variety of academic disciplines and everyday situations. Solutions to selected exercises are also provided, supported by brief annotations that explain the technique used to solve the problem, or highlight a specific point of Python syntax. This enhanced new edition has been thoroughly updated and expanded with

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additional exercises, along with concise introductions that outline the core concepts needed to solve them. The exercises and solutions require no prior background knowledge, beyond the material covered in a typical introductory Python programming course. Features: uses an accessible writing style and easy-to-follow structure; includes a mixture of classic exercises from the fields of computer science and mathematics, along with exercises that connect to other academic disciplines; presents the solutions to approximately half of the exercises; provides annotations alongside the solutions, which explain the approach taken to solve the problem and relevant aspects of Python syntax; offers a variety of exercises of different lengths and difficulties; contains exercises that encourage the development of programming skills using if statements, loops, basic functions, lists, dictionaries, files, and recursive functions. Undergraduate students enrolled in their first programming course and wishing to enhance their programming abilities will find the exercises and solutions provided in this book to be ideal for their needs.

??Bonus: Buy the Paperback version of this book, and get the kindle eBook version included for FREE\*\* If you have been trying to learn the Python program for some time now and you have decided this is the time, Python for Beginners is the book that you should get. Start as a beginner and finish as a pro. Not only because of the information that you get from the book, also because of the motivation. Learning about Python the easy way should be your motto. Most of the content that you are likely to find out there about Python is likely to leave you halfway asleep. However, even though this book has technical stuff (because it is needed), will also give you some fun facts about Python, keep you entertained ,and most importantly, informed. It is important to have a book that can guide you during your first stages of becoming

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a programmer. When it comes to learning about something as crucial as this, you want to make sure that the first thing you read guides you well - a book that you can refer to from time to time when you want to look into something that concerns the program. The book will give insights about the two major versions of Python that is Python 2 and 3. You will get to know their differences. You will know the importance of coding and why you need to come up with a good code. If you have been wondering how to install Python on either your Windows or Mac operating system, this is your chance to learn. You will get a step by step guide on how to program via the Tkinter tutorial. There is a lot of information on this book that will prove to be helpful. As a beginner, you will need a lot of information that will add value to your agenda. If you have a dream of one day programming a software with the Python program, don't start tomorrow - start today! It is important to have a guide that will give you useful throughout your journey. You need to stop procrastinating and start learning how to code the easy way! Start your journey once you buy this book! Inside you will find ?The difference between Python 2 and 3 and how they both work ?A step-by-step guide that will tell you how to install the program on both Windows and Mac ?The organization of the Python code ?The functions that are in Python and why you should use Python while programming ?Learn about the classes and objects in Python ?Get to know how Python code is organized and the importance of writing a good code ?This and more..... So what are you waiting for??? Scroll back up and order this book NOW.

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On... How many times have you thought about learning how to code but got discouraged because you had no technical background, didn't have the time to learn, or you just didn't think you were smart enough? Well, we have good news for you. You Don't Need An Expensive Computer Science Degree, A 500 Page Textbook or A Genius Mind To Learn The Basics Of Python Programming! Amazon bestselling author, James Tudor, provides a concise, step-by-step guide to Python programming for beginners. A lot of examples, illustrations, end of chapter summary and practice exercises (with solutions) are provided to help the reader learn faster, remember longer and develop a thorough understanding of key concepts. In This Book, you'll discover: A concise. Simple. Newby friendly style of teaching that lends itself well to beginners Chapters that have been sliced into bite-size chunks to give you the information you need (at that point in time) so you're not overwhelmed. Lots of simple, step-by-step examples and illustrations are used to emphasis key concepts and help improve your understanding Each practice exercise builds on concepts discussed in previous chapters so your learning is reinforced as you progress. Topics are carefully selected to give you a broad exposure to Python, while not overwhelming you with too much (potentially unnecessary) information. An end of chapter summary is presented to give you key take aways that help you solidify your understanding PLUS, BONUS MATERIALS: The first few pages of this book will show you how to download an answer booklet that summarizes all the solution to the practice exercises presented in this book. You no longer have to waste your time and money trying to learn Python from expensive online courses, college degrees or unnecessarily long textbooks that leave you thousands of dollars in debt, more confused and frustrated. If you're ready to learn the basics of python programming 5 days from TODAY, grab a copy of this book today! Scroll

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How do you take your data analysis skills beyond Excel to the next level? By learning just enough Python to get stuff done. This hands-on guide shows non-programmers like you how to process information that's initially too messy or difficult to access. You don't need to know a thing about the Python programming language to get started. Through various step-by-step exercises, you'll learn how to acquire, clean, analyze, and present data efficiently. You'll also discover how to automate your data process, schedule file- editing and clean-up tasks, process larger datasets, and create compelling stories with data you obtain. Quickly learn basic Python syntax, data types, and language concepts Work with both machine-readable and human-consumable data Scrape websites and APIs to find a bounty of useful information Clean and format data to eliminate duplicates and errors in your datasets Learn when to standardize data and when to test and script data cleanup Explore and analyze your datasets with new Python libraries and techniques Use Python solutions to automate your entire data-wrangling process Would you like to start programming with Python from scratch? This is the easiest way you can find it! What are you waiting for? Keep reading! This boxset includes: Python Programming for Beginners: The Ultimate Beginner's Guide to Learning the Basics of Python in a Great Crash Course Full of Notions, Tips, and Tricks The PROGRAMMING LANGUAGES ACADEMY has created a targeted learning path within reach of anyone who wants to start programming without appropriate skills. In this book, you will find a real step by step path that will take you from 0 to 100 in a few days!!! Once you start reading, you will appreciate a simple, straightforward, and essential guide. Python Workbook: Learn How to Quickly and Effectively Program with Exercises, Projects, and Solutions Python is easy to read because the code

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looks a lot like regular English, but don't let this simplicity deceive you: it's one of the most influential and versatile programming languages out there! It powers many of your favorite websites and services, including Instagram, Spotify, and even Google! This book takes you on a practical journey through the fantastic features of Python. Unlike books that focus on theoretical concepts only, this book will show you how Python is used - and encourage you to get creative! Here's what you'll find in this book: Practical programming exercises that will help you apply programming concepts to real-life situations Debugging activities that will teach you to notice errors in Python code quickly Fun projects that will test your knowledge and motivate you to practice even more Valuable tips for mastering Python quickly Learning the basics of any programming language may seem a bit boring at first, but once you've written your first program that does something - even if it's just printing text on the screen - your excitement and motivation will become unstoppable. Are you ready to start writing Python apps that work? If you're prepared to learn the basics of python programming 7 DAYS FROM TODAY, get a copy of this book today!

I wasn't smart enough to learn a computer language like Python--until I got smart about how to learn it. In This Python Programming Book, you'll discover: - A concise. Simple. Newby friendly style of teaching that lends itself well to beginners - Chapters that have been sliced into bite-size chunks to give you the information you need (at that point in time) so you're not overwhelmed. - Lots of simple, step-by-step examples and illustrations are used to emphasize key concepts and help improve your understanding - Each practice exercise builds on concepts discussed in previous chapters so your learning is reinforced as you progress. - Topics are carefully selected to give you broad exposure to Python, while not overwhelming

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you with too much (potentially unnecessary) information. - An end of chapter summary is presented to give you key takeaways that help you solidify your understanding - PLUS, BONUS MATERIALS: The first few pages of this book will show you how to download an answer booklet that summarizes all the solutions to the practice exercises presented in this book. You don't need to be a computer genius to learn Python. You just need to be smart about how you learn it.

In The Ultimate Python Programming Guide for Beginners you will learn all the essential tools to become proficient in the python programming language. Learn how to install python in all major operating systems: Windows, Mac OS, and even Linux. You will be guided step by step from downloading the necessary files to making adjustments in the installation for your particular operating system. Learn the command line shell, and how to use it to run python in interactive and script modes. Discover how the python interpreter functions, and learn how to use the interactive command line shell through practical examples you can try on your own. Learn datatypes and variables in depth, with example code and discussion of the generated output. Numbers are covered in detail, including a discussion of the 4 number types in python: integer, float, complex, and boolean. Learn about Truthy and Falsy returns and how they relate to the boolean type. Practice with some of the many built-in python math functions, and discover the difference between format() and round() functions. Strings are one of the most important variables in any programming language. Learn in-depth how to explore, search, and even manipulate strings in python. Practice with python's built-in string methods. Learn about python's control structures and how to use boolean logic to achieve your software requirements. Deal with operators and develop an understanding of the strengths and

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differences of mathematical, relational and logical operators, as well as the importance of operator precedence and associativity. Learn about strings and the many ways to search through and manipulate them. Discover the power of inheritance and polymorphism. Learn how to open, manipulate and read, and close files on your file system. Learn about the philosophy and importance of code reuse, and how modules in python makes this simple. Examine the difference between procedural and Object Oriented programming. Which is right for you may depend on what kind of code you are writing. Practice control structures in python. Study operators and learn about operator overloading. An in-depth discussion of python sequences: lists, sets, tuples and dictionaries. Learn the strengths and weaknesses of each. Practice creating and manipulating python sequences.

Python has gone to be one of the most popular programming languages in the world, and you will be one of the few people left out if you don't add this knowledge to your arsenal. If you're looking to learn Python, now is an excellent time to do so. But where do you begin? You can start right here, right now, with this book. It makes learning Python simple, fast, and easy, taking away the confusion from learning a new language. When learning a new language, it's easy to be overwhelmed and not know where to start or what to focus on. You can spend a long time pursuing tutorials online only to find out you don't really understand any of the concepts they covered. That won't be a problem here! This book follows a step by step guide, walking you through everything you need to know about Python in an easy to follow fashion. It will teach you all the basics of Python, and even some of the more advanced Python concepts, taking you from beginner to intermediate Python programmer. This book will give you: A solid foundation in Python programming. Intermediate and advanced topics once you've mastered

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the basics. Simple explanations of code, broken down into easy to follow steps. Python programming exercises and solutions. Two projects at the end of the book designed to help you bring all the concepts you've learned together. Source code files you can refer to and run on your computer.

While other textbooks devote their pages to explaining introductory programming concepts, The Python Workbook focuses exclusively on exercises, following the philosophy that computer programming is a skill best learned through experience and practice. Designed to support and encourage hands-on learning about programming, this student-friendly work contains 174 exercises, spanning a variety of academic disciplines and everyday situations. Solutions to selected exercises are also provided, supported by brief annotations that explain the technique used to solve the problem, or highlight specific points of Python syntax. No background knowledge is required to solve the exercises, beyond the material covered in a typical introductory Python programming course. Undergraduate students undergoing their first programming course and wishing to enhance their programming abilities will find the exercises and solutions provided in this book to be ideal for their needs.

This book is a tutorial for the Python 3 programming language designed for someone with no programming experience. Starting from no programming knowledge, the book teaches how to create programs with examples, explanations and exercises.

Python Workbook for Beginners with Hands-On Projects Are you looking for a hands-on approach to learn Python fast? Or perhaps you have just completed a Python course and are looking for practice questions to test your Python skills. Do you have problems with some Python concepts and are looking for a workbook to provide you with more questions and

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solutions to learn from? This workbook is for you. This book is designed to be the accompanying workbook for the book "Learn Python In One Day and Learn It Well (2nd Edition)" by the same author. It can also be used as a standalone workbook for you to test and improve your knowledge of the Python syntax. What this book offers... Carefully designed questions Each question in this workbook is crafted to help you gradually build your programming skills, focusing on one or two concepts at a time and increasing in level of difficulty as we progress through the chapters. Clear and Easy to Understand Solutions All solutions in this book are extensively tested by a group of beta readers. The solutions provided are simplified as much as possible so that they can serve as examples for you to refer to when you are learning a new syntax. Two Projects to Consolidate Your Learning This workbook also includes two projects at the end to help you consolidate your learning. While the individual chapters prior to the projects help you learn one concept at a time, these two projects require the application of multiple concepts covered in previous chapters and allow you to see how everything works together. What this book aims to do... This workbook is written with one goal in mind - to help new programmers overcome their initial obstacles to learning. A lot of times, when new programmers look at code written by other programmers, they tend to feel intimidated as a lot of the code looks complicated to them. A complete program written by other programmers incorporates many different concepts. The goal of this workbook is to isolate the different concepts so that new programmers can gradually gain competency in the fundamentals of the language before working on bigger projects at the end of the book. Programming does not have to be scary or frustrating when you take one step at a time. Ready to start practicing and building your Python skills? Click the BUY button now to download this workbook. Topics

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Covered: - Variables and Mathematical Operations in Python- Common data types, including integers, floats, strings- Lists, Tuples and Dictionaries- String Formatting- Accepting user inputs and displaying outputs- Comparison and Condition Statements- Control flow tools in Python- How to handle errors and exceptions- What are functions and modules?- How to define your own functions and modules- How to work with external files- Object Oriented Programming Concepts- Classes, Subclasses and Inheritance..and more...Click the BUY button now to start learning and practicing your Python skills. Learn it fast and learn it well. Have you always wanted to Learn Python Programming but you have thought it to be too difficult for you? You are a beginner or maybe you master other programming languages and you want to Learn Python Coding fast and efficiently? Are you looking for the best Python Crash Course? If yes, then this book is for you. You no longer have to lose your time and resources learning Python from long books, costly online courses or very complicated Python tutorials. This book offers you a great opportunity. Simplicity Complexity is reduced thanks to easy step by step guidance so that you can progress easily with the Python language even if you have never programmed before. Best Order and Selection of topics to Learn Python Fast Topics are selected and ordered to give you the best knowledge of Python in the lowest amount of time without overloading you with information. Selected Practice Exercises and Examples Exercises and examples are selected to show thoroughly all concepts and the results of the examples are shown right away so you can see the result even when away from your computer Why is this book different... Unlike other books, this a complete book for beginners with all the concepts you need and you will have the opportunity to test thoroughly your knowledge! Are you ready to enter the exciting world of Python? Then this book is for you.

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"Have you always wanted to learn computer programming but are afraid it'll be too difficult for you? Or perhaps you know other programming languages but are interested in learning the Python language fast? This book is for you"--Page 4 of cover.

Make the Leap From Beginner to Intermediate in Python... Python Basics: A Practical Introduction to Python 3 Your Complete Python Curriculum-With Exercises, Interactive Quizzes, and Sample Projects What should you learn about Python in the beginning to get a strong foundation? With Python Basics, you'll not only cover the core concepts you really need to know, but you'll also learn them in the most efficient order with the help of practical exercises and interactive quizzes. You'll know enough to be dangerous with Python, fast! Who Should Read This Book If you're new to Python, you'll get a practical, step-by-step roadmap on developing your foundational skills. You'll be introduced to each concept and language feature

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in a logical order. Every step in this curriculum is explained and illustrated with short, clear code samples. Our goal with this book is to educate, not to impress or intimidate. If you're familiar with some basic programming concepts, you'll get a clear and well-tested introduction to Python. This is a practical introduction to Python that jumps right into the meat and potatoes without sacrificing substance. If you have prior experience with languages like VBA, PowerShell, R, Perl, C, C++, C#, Java, or Swift the numerous exercises within each chapter will fast-track your progress. If you're a seasoned developer, you'll get a Python 3 crash course that brings you up to speed with modern Python programming. Mix and match the chapters that interest you the most and use the interactive quizzes and review exercises to check your learning progress as you go along. If you're a self-starter completely new to coding, you'll get practical and motivating examples. You'll begin by installing Python and setting up a coding environment on your computer from scratch, and then continue from there. We'll get you coding right away so that you become competent and knowledgeable enough to solve real-world problems, fast. Develop a passion for programming by solving interesting problems with Python every day! If you're looking to break into a coding or data-science career, you'll pick up the practical foundations with this book. We won't just dump a boat load of theoretical information on you so you can "sink or swim"-instead you'll learn from hands-on, practical examples one step at a time. Each concept is broken down for you so you'll always know what you can do with it in practical terms. If you're interested in teaching others "how to Python," this will be your guidebook. If you're looking to stoke the coding flame in your coworkers, kids, or relatives-use our material to teach them. All the sequencing has been done for you so you'll always know what to cover next and how to explain it. What Python Developers Say About The

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Book: "Go forth and learn this amazing language using this great book." - Michael Kennedy, Talk Python "The wording is casual, easy to understand, and makes the information flow well." - Thomas Wong, Pythonista "I floundered for a long time trying to teach myself. I slogged through dozens of incomplete online tutorials. I snoozed through hours of boring screencasts. I gave up on countless cruffy books from big-time publishers. And then I found Real Python. The easy-to-follow, step-by-step instructions break the big concepts down into bite-sized chunks written in plain English. The authors never forget their audience and are consistently thorough and detailed in their explanations. I'm up and running now, but I constantly refer to the material for guidance." - Jared Nielsen, Pythonista

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