Debugging In Python Various Writings

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Comp-Computer Science TB-11-R Packt Publishing Ltd
“ Each item in Slatkin ’ s Effective Python teaches a self-contained lesson with its own source code. This makes the book random-access: Items are easy to browse and study in whatever order the reader needs. I will be recommending Effective Python to students as an admirably compact source of mainstream advice on a very broad range of topics for the intermediate Python programmer. ” —Brandon Rhodes, software engineer at Dropbox and chair of PyCon 2016-2017 It ’ s easy to start coding with Python, which is why the language is so popular. However, Python ’ s unique strengths, charms, and expressiveness can be hard to grasp, and there are hidden pitfalls that can easily trip you up. Effective Python will help you master a truly “ Pythonic ” approach to programming, harnessing Python ’ s full power to write exceptionally robust and well-performing code. Using the concise, scenario-driven style pioneered in Scott Meyers ’ best-selling Effective C++, Brett Slatkin brings together 59 Python best practices, tips, and shortcuts, and explains them with realistic code examples. Drawing on years of experience building Python infrastructure at Google, Slatkin uncovers little-known quirks and idioms that powerfully impact code behavior and performance. You ’ ll learn the best way to accomplish key tasks, so you can write code that ’ s easier to understand, maintain, and improve. Key features include Actionable guidelines for all major areas of Python 3.x and 2.x development, with detailed explanations and examples Best practices for writing functions that clarify intention, promote reuse, and avoid bugs Coverage of how to accurately express behaviors with classes and objects Guidance on how to avoid pitfalls with metaclasses and dynamic attributes More efficient approaches to concurrency and parallelism Better techniques and idioms for using Python ’ s built-in modules Tools and best practices for collaborative development Solutions for debugging, testing, and optimization in order to improve quality and performance
A Complete Introduction to the Python Language CRC Press
Quantitative Finance with Python: A Practical Guide to Investment Management, Trading and Financial Engineering bridges the gap between the theory of mathematical finance and the practical applications of these concepts for derivative pricing and portfolio management. The book provides students with a very hands-on, rigorous introduction to foundational topics in quant finance, such as options pricing, portfolio optimization and machine learning. Simultaneously, the reader benefits from a strong emphasis on the practical applications of these concepts for institutional investors. Features Useful as both a teaching resource and as a practical tool for professional investors. Ideal textbook for first year graduate students in quantitative finance programs, such as those in master ’ s programs in Mathematical Finance, Quant Finance or Financial Engineering. Includes a perspective on the future of quant finance techniques, and in particular covers some introductory concepts of Machine Learning. Free-to-access repository with Python codes available at www.routledge.com/ 9781032014432.
Packt Publishing Ltd
Learn software engineering and coding best practices to write Python code right and error free. In this book you’ll see how to properly debug, organize, test, and maintain your code, all of which leads to better, more efficient coding. Software engineering is difficult. Programs of any substantial length are inherently prone to errors of all kinds. The development cycle is full of traps unknown to the apprentice developer. Yet, in Python textbooks little attention is paid to this aspect of getting your code to run. At most, there is a chapter on debugging or unit testing in your average basic Python book. However, the proportion of time spent on getting your code to run is much higher in the real world. Pro Python Best Practices aims to solve this problem. What You'll Learn Learn common debugging techniques that help you find and eliminate errors Gain techniques to detect bugs more easily discover best="" practices="" to="" prevent="" bugscarry="" out="" automated="" testing="" discover="" problems="" fasteruse="" maintain="" a="" project="" over="" long="" timeLearn techniques to keep your project under controlbr/uldivbWho This Book Is For/bbr/divdivbr/divdivExperienced Python coders from web development, big data, and more./divdivbr/divdivdiv/div
A Desktop Quick Reference John Wiley & Sons
Wide Ruled Notebook. Size: 6 inches x 9 inches. 55 sheets (110 pages for writing). Code Debugger. 158410715731. TAGs: geek, geeky, nerd, nerdy, cool, funny, cute, awesome, programmer, program, programming, code, coder, coding, employee, it, information, technology, techy, techie, tech, system, systems, analyst, administrator, database, db, java, perl, php, python, net, html, wordpress, sap, unity, debug, debugger
Pro Python Best Practices Springer
Debugging is crucial to successful software development, but even many experienced programmers find it challenging. Sophisticated debugging tools are available, yet it may be difficult to determine which features are useful in which situations. The Art of Debugging is your guide to making the debugging process more efficient and effective. The Art of Debugging illustrates the use three of the most popular debugging tools on Linux/Unix platforms: GDB, DDD, and Eclipse. The text-command based GDB (the GNU Project Debugger) is included with most distributions. DDD is a popular GUI front end for GDB, while Eclipse provides a complete integrated development environment. In addition to offering specific advice for debugging with each tool, authors Norm Matloff and Pete Salzman cover general strategies for improving the process of finding and fixing coding errors, including how to: –Inspect variables and data structures –Understand segmentation faults and core dumps –Know why your program crashes or throws exceptions –Use features like catchpoints, convenience variables, and artificial arrays –Avoid common debugging pitfalls Real world examples of coding errors help to clarify the authors’ guiding principles, and coverage of complex topics like thread, client-server, GUI, and parallel programming debugging will make you even more proficient. You'll also learn how to prevent errors in the first place with text editors, compilers, error reporting, and static code checkers. Whether you dread the thought of debugging your programs or simply want to improve your current debugging efforts, you'll find a valuable ally in The Art of Debugging.
Django 1.1 Testing and Debugging The Rosen Publishing Group, Inc
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
Functional Programming For Dummies John Wiley & Sons
A Functional Start to Computing with Python enables students to quickly learn computing without having to use loops, variables, and object abstractions at the start. Requiring no prior programming experience, the book draws on Python’s flexible data types and operations as well as its capacity for defining new functions. Along with the specifics of Python, the text covers important concepts of computing, including software engineering motivation, algorithms behind syntax rules, advanced functional programming ideas, and, briefly, finite state machines. Taking a student-friendly, interactive approach to teach computing, the book addresses more difficult concepts and abstractions later in the text. The author presents ample explanations of data types, operators, and expressions. He also describes comprehensions—the powerful specifications of lists and dictionaries—before introducing loops and variables. This approach helps students better understand assignment syntax and iteration by giving them a mental model of sophisticated data first. Web Resource The book’s supplementary website at http://functionalfirstpython.com/ provides many ancillaries, including: Interactive flashcards on Python language elements Links to extra support for each chapter Unit testing and programming exercises An interactive Python stepper tool Chapter-by-chapter points Material for lectures
Python For Dummies No Starch Press
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 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.
Tips and Tools to Make Your Life Easier Independently Published
Python is fast becoming the programming language of choice for hackers, reverse engineers, and software testers because it's easy to write quickly, and it has the low-level support and libraries that make hackers happy. But until now, there has been no real manual on how to use Python for a variety of hacking tasks. You had to dig through forum posts and man pages, endlessly tweaking your own code to get everything working. Not anymore. Gray Hat Python explains the concepts behind hacking tools and techniques like debuggers, trojans, fuzzers, and emulators. But author Justin Seitz goes beyond theory, showing you how to harness existing Python-based security tools—and how to build your own when the pre-built ones won't cut it. You'll learn how to: –Automate tedious reversing and security tasks –Design and program your own debugger –Learn how to fuzz Windows drivers and create powerful fuzzers from scratch –Have fun with code and library injection, soft and hard hooking techniques, and other software trickery –Sniff secure traffic out of an encrypted web browser session –Use PyDBG, Immunity Debugger, Sulley, IDAPython, PyEMU, and more The world's best hackers are using Python to do their handiwork. Shouldn't you?
Data Wrangling with Python Springer Science & Business Media
Learn to find software bugs faster and discover how other developers have solved similar problems. For intermediate to advanced iOS/macOS developers already familiar with either Swift or Objective-C who want to take their debugging skills to the next level, this book includes topics such as: LLDB and its subcommands and options; low-level components used to extract information from a program; LLDB's Python module; and DTrace and how to write D scripts.
Quantitative Finance with Python Packt Publishing Ltd
Learn software engineering and coding best practices to write Python code right and error free. In this book you’ll see how to properly debug, organize, test, and maintain your code, all of which leads to better, more efficient coding. Software engineering is difficult. Programs of any substantial length are inherently prone to errors of all kinds. The development cycle is full of traps unknown to the apprentice developer. Yet, in Python textbooks little attention is paid to this aspect of getting your code to run. At most, there is a chapter on debugging or unit testing in your average basic Python book. However, the proportion of time spent on getting your code to run is much higher in the real world. Pro Python Best Practices aims to solve this problem. What You'll Learn Learn common debugging techniques that help you find and eliminate errors Gain techniques to detect bugs more easily discover best="" practices="" to="" prevent="" bugsCarry out automated

testing to discover problems fasterbrliUse best practices to maintain a project over a long timebr/liliLearn techniques to design larger software seamlesslybr/li/uldivbWho This Book Is For/bbr/divdivbr/divdivExperienced Python coders from web development, big data, and more./divdivbr/divdivdiv/div

59 Specific Ways to Write Better Python Apress

The easy way to learn programming fundamentals with Python Python is a remarkably powerful and dynamic programming language that's used in a wide variety of application domains. Some of its key distinguishing features include a very clear, readable syntax, strong introspection capabilities, intuitive object orientation, and natural expression of procedural code. Plus, Python features full modularity, supporting hierarchical packages, exception-based error handling, and modules easily written in C, C++, Java, R, or .NET languages, such as C#. In addition, Python supports a number of coding styles that include: functional, imperative, object-oriented, and procedural. Due to its ease of use and flexibility, Python is constantly growing in popularity—and now you can wear your programming hat with pride and join the ranks of the pros with the help of this guide. Inside, expert author John Paul Mueller gives a complete step-by-step overview of all there is to know about Python. From performing common and advanced tasks, to collecting data, to interacting with package—this book covers it all! Use Python to create and run your first application Find out how to troubleshoot and fix errors Learn to work with Anaconda and use Magic Functions Benefit from completely updated and revised information since the last edition If you've never used Python or are new to programming in general, Beginning Programming with Python For Dummies is a helpful resource that will set you up for success.

Developing More Efficient and Effective Programs in Python John Wiley & Sons

Software development tools that work and behave consistently across different programming languages are helpful for developers, because they do not have to familiarize themselves with new tooling whenever they decide to use a new language. Also, being able to combine multiple programming languages in a program increases reusability, as developers do not have to recreate software frameworks and libraries in the language they develop in and can reuse existing software instead. However, developers often have a broad choice with regard to tools, some of which are designed for only one specific programming language. Various Integrated Development Environments have support for multiple languages, but are usually unable to provide a consistent programming experience due to different features of language runtimes. Furthermore, common mechanisms that allow reuse of software written in other languages usually use the operating system or a network connection as the abstract layer. Tools, however, often cannot support such indirections well and are therefore less useful in debugging scenarios for example. In this report, we present a novel approach that aims to improve the programming experience with regard to working with multiple high-level programming languages. As part of this approach, we reuse the tools of a Smalltalk programming environment for other languages and build a multi-language virtual execution environment which is able to provide the same runtime capabilities for all languages. The prototype system Squimera is an implementation of our approach and demonstrates that it is possible to reuse development tools, so that they behave in the same way across all supported programming languages. In addition, it provides convenient means to reuse and even mix software libraries and frameworks written in different languages without breaking the debugging experience.

Understanding Coding Through Debugging Apress

Harness the power of multiple computers using Python through this fast-paced informative guide About This Book You'll learn to write data processing programs in Python that are highly available, reliable, and fault tolerant Make use of Amazon Web Services along with Python to establish a powerful remote computation system Train Python to handle data-intensive and resource hungry applications Who This Book Is For This book is for Python developers who have developed Python programs for data processing and now want to learn how to write fast, efficient programs that perform CPU-intensive data processing tasks. What You Will Learn Get an introduction to parallel and distributed computing See synchronous and asynchronous programming Explore parallelism in Python Distributed application with Celery Python in the Cloud Python on an HPC cluster Test and debug distributed applications In Detail CPU-intensive data processing tasks have become crucial considering the complexity of the various big data applications that are used today. Reducing the CPU utilization per process is very important to improve the overall speed of applications. This book will teach you how to perform parallel execution of computations by distributing them across multiple processors in a single machine, thus improving the overall performance of a big data processing task. We will cover synchronous and asynchronous models, shared memory and file systems, communication between various processes, synchronization, and more. Style and Approach This example based, step-by-step guide will show you how to make the best of your hardware configuration using Python for distributing applications.

Squimera No Starch Press

Python is an easy-to-use and easy-to learn programming language that is freely available on Windows, Macintosh, and Linux computers. In this book, you'll learn Python by working through 15 chapters. 1. Introduction 2. Installation and Getting Started 3. Python IDEs and Debuggers 4. Python Basics 5. Data Types and Dynamic Typing 6. Control Constructs 7. Functions 8. Modules, Import-Statements and Packages 9. Advanced Functions and Namespaces 10. File Input/Output 11. Assertion and Exception Handling 12. Commonly-Used Python Standard Library Modules 13. Object-Oriented Programming (OOP) in Python 14. Unit Testing 15. Database Programming This book is designed for - Students who want to learn programming and computational thinking with no programming experience - Junior developers who know one or two languages - Returning professionals who haven't written code in years - Seasoned professionals looking for a fast, simple, crash course in Python 3

A Guide to Systematic Debugging Sams Publishing

Color Edition.This book is a systematic plan to debug your programs. The focus is not on the Python language, although Chapter 3 does cover the basics. Instead, my focus is always on debugging. If you're new to Python debugging, I think this book is a good starting point. Experienced Python programmers might want to review the table of contents, to see if there's anything special that catches their interest.The sample code demonstrates lists, tuples, loops, or classes, but in the simplest form I could imagine. Chapters 1-2 outline how to set up your Python debugging environment, and establish a debugging plan as you write your code.1.Work on small chunks of code, test, and then move on to the next piece.2.Keep multiple backup versions of your files.3.Have a clear idea of what you want your program to do.4.Use small data file samples that you know have clean data to develop your code. When you've tested your code and are confident there are no bugs, use live data connections or real data files. 5.Keep notes of where you stopped programming and the next steps.6.Divide and concur. Divide the code in half and test each half to see which half has the error. Repeat to drill down to the location with the error.7.When debugging, keep a record of experiments, so you know what you've already tried.Chapter 4 has simple suggestions for debugging your code, with specific examples of the code and results. Even if you've never seen Spyder or Python before, at the end of this chapter, I hope you'll feel confident debugging most of the issues you'll encounter.*With the Debugging Overview, you'll learn about the Editor, Variable Explorer, and Debug Mode and Interactive Mode in the Console. We'll look at those times when you don't see your object in Variable Explorer, and explore why the Console traceback says "NameError."*Delve into Debug Mode, including basic commands, how to set a breakpoint, and examples of stepping through the code.*Add Print Statements (and visual clues for the depth of loop statements).*Logging for those times when print statements roll off the screen.*Use Interactive Mode with several common Console commands and two magic commands. [object name]?dir(object)help(object)%debug%timeitChapter 5 briefly looks at the types of errors you may encounter, and then in Chapter 6, you can try out your debugging knowledge. We'll look at the syntax for retrieving object values, type information, the length of objects or data structures, arguments, and return values. Because syntax varies based on the type and length of objects, there are numerous examples for strings, numbers, tuples, lists, and dictionaries. We'll also look at the special "None" value, unique to Python.Chapter 7 is chock full of examples. The format for each example is the same: Description, Intended Outcome, Actual Result, Incorrect Code, Debugging Steps, How to Resolve the Issue, Good Code, and a Reference to earlier related topics.Finally, the Appendix-Reference chapter includes links to the Python.org docs and the iPython.readthedocs websites for more detailed information.

Python Programming for Hackers and Reverse Engineers SAGE Publications

Become proficient and efficient with Visual Studio Code and learn how to integrate all your external tools! Visual Studio Code for Python Programmers helps Python developers become not just familiar, but productive in Visual Studio Code. To start, you'll find the steps for installing Visual Studio Code on Windows, Mac and Linux platforms, along with an introduction to the editing features of the workspace. Coverage of more advanced functionality includes managing source code, debugging, unit testing, and Jupyter Notebook support. The book finishes with a walk-through of real-world projects which utilize Visual Studio Code features introduced in the book. For developers, the choice of an editor is a very personal one. You have idiosyncratic needs and wants that are unique to you as a developer. This book will help you learn how to customize Visual Studio Code to meet your needs and Python development workflow. Introduces you to the features of the Visual Studio Code workspace and how those features can be customized Demonstrates how Visual Studio Code allows you to choose your structure according to your needs Covers editing code in Python, including syntax highlighting, code completion, object definition, refactoring, and code navigation Describes Git integration and how to perform common Git functions (commits, checkouts, branches, and merges) from within Visual Studio Code Highlights debugging features for Python developers A final section on Real World Applications will step you through several examples (and features integration with Django, Flask, Jupyter Notebook, Docker, and Azure), so you can hit the ground running with Visual Studio Code.

Python All-in-One For Dummies "O'Reilly Media, Inc."

Learn Visual Studio Code and implement its features in Python coding, debugging, linting, and overall project management. This book addresses custom scenarios for writing programs in Python frameworks, such as Django and Flask. The book starts with an introduction to Visual Studio Code followed by code editing in Python. Here, you will learn about the required extensions of Visual Studio Code to perform various functions such as linting and debugging in Python. Next, you will set up the environment and run your projects along with the support for Jupyter. You will also work with Python frameworks such as Django and go through data science specific-information and tutorials. Finally, you will learn how to integrate Azure for Python and how to use containers in Visual Studio Code. Optimizing Visual Studio Code for Python Development is your ticket to writing Python scripts with this versatile code editor. What You'll Learn Execute Flask development in Visual Studio Code for control over libraries used in an application Optimize Visual Studio Code to code faster and better Understand linting and debugging Python code in Visual Studio Code Work with Jupyter Notebooks in Visual Studio Code Who This Book Is For Python developers, beginners, and experts looking to master Visual Studio Code

Visual Studio Code for Python Programmers "O'Reilly Media, Inc."

This book teaches by example. It walks in detail through development of a sample application, illustrating each step via complete working code and either screenshots or console snippets. The cumbersome and time consuming task of debugging will be a cake walk with this book. If you are a Django application developer who wants to create robust applications quickly that work well and are easy to maintain in the long term, this book is for you. This book is the right pick if you want to be smartly tutored to make best use of Django's rich testing and debugging support and make testing an effortless task. Basic knowledge of Python, Django, and the overall structure of a database-driven web application is assumed. However, the code samples are fully explained so that even beginners who are new to the area can learn a great deal from this book.

Asterisk: The Future of Telephony John Wiley & Sons

Explore The World of Python Programming Beginner Working with the Python coding language is a great experience. It allows you to learn how to work with your own coding language while giving you all the tools that you will need to make useful programs by yourself. There are no other coding languages that you can learn which are as great as Python, whether you are a beginner or an expert with coding. This guidebook can provide you with all the information that you need to get started with the Python coding language. There are a lot of different topics to discuss when it comes to working with the Python language. Some of the topics that we will discuss include: What is Python and how can you get it downloaded on your computer? How to work with classes and objects Some of the basic components that come with the Python language How to work with exceptions How to create inheritances. The fun of working with loops What the conditional statements are all about And so much more If you feel like you are ready to get started on working with a coding language and you choose to work with Python, make sure to check out this guidebook to help you to get started. Intermediate No matter what your skill level, as long as you have a decent grasp of Python basics, this book can help you improve your Python coding techniques! Challenge your mental approach to programming and gain confidence in your code. With the techniques you learn here, you'll not only be able to produce clear and effective Python programs -- you'll be able to integrate your code with others for efficient and powerful Python-based projects! This book includes: An overview of how to mentally approach writing your Python code, and how to improve this thought process An introduction to classes and class interaction A look at how you can improve your code using Python's unique function features Techniques for improving your code when collaborating on projects with others The best approach to optimizing and debugging your Python projects So pick up your Copy Today of Python: The Utmost Intermediate Course Guide in Fundamentals and Concept of Python Programming, sit back with your favorite text editor and enjoy taking your Python code to a whole new level. You'll be a Python pro in no time! Advanced with 21 Sample Codings The code examples in this book vary in length from some 40 lines of code to over 200. If you look at the Table of Contents, there is no discernible method behind them. They cover everything from data structures and algorithms to making games and even web development. This book is suitable for seasoned programmers who are new to Python as well. While it doesn't talk about syntax at all, you will learn how medium-sized Python projects are structured. Reasons to buy this book: one advanced coding examples using pure Python. These examples go beyond what you may have encountered in introductory books. No silly FizzBuzz examples or how-to-for-loop shenanigans. There is no handholding here or extensive breakdown of ideas. Read the code, understand it, modify it, and move on. Each example coding lists a number of possible extensions to keep you busy coding after you

have the example down Learn how to read a real production dataset used by the National Highway Traffic Safety Administration. Learn how to make computer games for both the terminal and screen. Get a kick-start into web programming with Python frameworks.