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[unittest Module](#) Pro Python Best Practices
Debugging

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; Who This Book Is For Experienced Python coders from web development, big data, and more.

Pro Python Best Practices - Debugging,
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Pro Python Best Practices: Debugging, Testing
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Pro Python Best Practices: Debugging, Testing
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The Best Practices for debugging include tools like print, introspection to produce diagnostic information, and an interactive debugger for tracing the execution of code line by line. These Best Practices for debugging are useful regardless of the type and size of program you are writing.

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Pro Python Best Practices: Debugging, Testing and Maintenance

Python Best Practices. by Dr. Kristian Rother. This repository contains the code examples for the book Pro Python Best Practices: Debugging, Testing and Maintenance published by Apress in 2017. The book is meant for intermediate-level Python programmers to learn the basics of how to

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write better, more stable software. What the chapters are about

Python Best Practices - GitHub

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Pro Python Best Practices Debugging Testing And Maintenance

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eliminate errors.

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Python Logging Best Practices. Here are six

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Python logging best practices to help you on your way. Don't Reinvent the Wheel. Going with print statements or even writing to files might be tempting because it's so easy, but it comes with a price. If you don't use a proper logging solution, you can't enjoy all the other benefits they have.

6 Python Logging Best Practices You Should Be Aware Of ...

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Learn software engineering and coding best practices to write Python code right and

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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

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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 bugs Carry out automated testing to discover problems faster Use best practices to maintain a project over a long time Learn techniques to design larger software seamlessly Who This Book Is For Experienced Python coders from web development, big data, and more.

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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

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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 bugs carry out automated testing discover problems faster use maintain a project over long time Learn techniques to keep your project under control

Who This Book Is

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For/bbr/divdivbr/divdivExperienced Python coders from web development, big data, and more./divdivbr/divdivdiv/div

The quantity, diversity and availability of transport data is increasing rapidly, requiring new skills in the management and interrogation of data and databases. Recent years have seen a new wave of 'big data', 'Data Science', and 'smart cities' changing the world, with the Harvard Business Review describing Data Science as the "sexiest job of the 21st century". Transportation professionals and researchers need to be able

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to use data and databases in order to establish quantitative, empirical facts, and to validate and challenge their mathematical models, whose axioms have traditionally often been assumed rather than rigorously tested against data. This book takes a highly practical approach to learning about Data Science tools and their application to investigating transport issues. The focus is principally on practical, professional work with real data and tools, including business and ethical issues. "Transport modeling practice was developed in a data poor world, and many of our current techniques and skills

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are building on that sparsity. In a new data rich world, the required tools are different and the ethical questions around data and privacy are definitely different. I am not sure whether current professionals have these skills; and I am certainly not convinced that our current transport modeling tools will survive in a data rich environment. This is an exciting time to be a data scientist in the transport field. We are trying to get to grips with the opportunities that big data sources offer; but at the same time such data skills need to be fused with an understanding of transport, and of transport modeling.

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Those with these combined skills can be instrumental at providing better, faster, cheaper data for transport decision-making; and ultimately contribute to innovative, efficient, data driven modeling techniques of the future. It is not surprising that this course, this book, has been authored by the Institute for Transport Studies. To do this well, you need a blend of academic rigor and practical pragmatism. There are few educational or research establishments better equipped to do that than ITS Leeds". - Tom van Vuren, Divisional Director, Mott MacDonald "WSP is proud to be a thought

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leader in the world of transport modelling, planning and economics, and has a wide range of opportunities for people with skills in these areas. The evidence base and forecasts we deliver to effectively implement strategies and schemes are ever more data and technology focused a trend we have helped shape since the 1970's, but with particular disruption and opportunity in recent years. As a result of these trends, and to suitably skill the next generation of transport modellers, we asked the world-leading Institute for Transport Studies, to boost skills in these areas, and they have

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responded with a new MSc programme which you too can now study via this book." - Leighton Cardwell, Technical Director, WSP. "From processing and analysing large datasets, to automation of modelling tasks sometimes requiring different software packages to "talk" to each other, to data visualization, SYSTRA employs a range of techniques and tools to provide our clients with deeper insights and effective solutions. This book does an excellent job in giving you the skills to manage, interrogate and analyse databases, and develop powerful presentations. Another important publication

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from ITS Leeds." - Fitsum Teklu, Associate Director (Modelling & Appraisal) SYSTRA Ltd

"Urban planning has relied for decades on statistical and computational practices that have little to do with mainstream data science. Information is still often used as evidence on the impact of new infrastructure even when it hardly contains any valid evidence. This book is an extremely welcome effort to provide young professionals with the skills needed to analyse how cities and transport networks actually work. The book is also highly relevant to anyone who will later want to build digital solutions to optimise

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urban travel based on emerging data sources".
- Yaron Hollander, author of "Transport
Modelling for a Complete Beginner"

Summary Professional developers know the many benefits of writing application code that's clean, well-organized, and easy to maintain. By learning and following established patterns and best practices, you can take your code and your career to a new level. With Practices of the Python Pro, you'll learn to design professional-level, clean, easily maintainable software at scale using the incredibly popular programming language,

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Python. You'll find easy-to-grok examples that use pseudocode and Python to introduce software development best practices, along with dozens of instantly useful techniques that will help you code like a pro. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology
Professional-quality code does more than just run without bugs. It's clean, readable, and easy to maintain. To step up from a capable Python coder to a professional developer, you need to learn industry standards for coding style, application design, and development

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process. That's where this book is indispensable. About the book Practices of the Python Pro teaches you to design and write professional-quality software that's understandable, maintainable, and extensible. Dane Hillard is a Python pro who has helped many dozens of developers make this step, and he knows what it takes. With helpful examples and exercises, he teaches you when, why, and how to modularize your code, how to improve quality by reducing complexity, and much more. Embrace these core principles, and your code will become easier for you and others to read, maintain, and reuse. What's inside

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Organizing large Python projects Achieving the right levels of abstraction Writing clean, reusable code Inheritance and composition Considerations for testing and performance About the reader For readers familiar with the basics of Python, or another OO language. About the author Dane Hillard has spent the majority of his development career using Python to build web applications. Table of Contents: PART 1 WHY IT ALL MATTERS 1 | The bigger picture PART 2 FOUNDATIONS OF DESIGN 2 | Separation of concerns 3 | Abstraction and encapsulation 4 | Designing for high performance 5 | Testing

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your software PART 3 NAILING DOWN LARGE
SYSTEMS 6 | Separation of concerns in
practice 7 | Extensibility and flexibility 8
| The rules (and exceptions) of inheritance 9
| Keeping things lightweight 10 | Achieving
loose coupling PART 4 WHAT'S NEXT? 11 |
Onward and upward

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

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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

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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?

BRIDGE THE GAP BETWEEN NOVICE AND PROFESSIONAL You've completed a basic Python programming tutorial or finished Al Sweigart's bestseller, Automate the Boring

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Stuff with Python. What's the next step toward becoming a capable, confident software developer? Welcome to Beyond the Basic Stuff with Python. More than a mere collection of advanced syntax and masterful tips for writing clean code, you'll learn how to advance your Python programming skills by using the command line and other professional tools like code formatters, type checkers, linters, and version control. Sweigart takes you through best practices for setting up your development environment, naming variables, and improving readability, then tackles documentation, organization and

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performance measurement, as well as object-oriented design and the Big-O algorithm analysis commonly used in coding interviews. The skills you learn will boost your ability to program--not just in Python but in any language. You'll learn:

- Coding style, and how to use Python's Black auto-formatting tool for cleaner code
- Common sources of bugs, and how to detect them with static analyzers
- How to structure the files in your code projects with the Cookiecutter template tool
- Functional programming techniques like lambda and higher-order functions
- How to profile the speed of your

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code with Python's built-in `timeit` and `cProfile` modules • The computer science behind Big-O algorithm analysis • How to make your comments and docstrings informative, and how often to write them • How to create classes in object-oriented programming, and why they're used to organize code Toward the end of the book you'll read a detailed source-code breakdown of two classic command-line games, the Tower of Hanoi (a logic puzzle) and Four-in-a-Row (a two-player tile-dropping game), and a breakdown of how their code follows the book's best practices. You'll test your skills by implementing the program

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yourself. Of course, no single book can make you a professional software developer. But *Beyond the Basic Stuff with Python* will get you further down that path and make you a better programmer, as you learn to write readable code that's easy to debug and perfectly Pythonic

Requirements: Covers Python 3.6 and higher

You've learned the basics of Python, but how do you take your skills to the next stage? Even if you know enough to be productive, there are a number of features that can take you to the next level in Python. Pro Python

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explores concepts and features normally left to experimentation, allowing you to be even more productive and creative. In addition to pure code concerns, Pro Python will develop your programming techniques and approaches, which will help make you a better Python programmer. Not only will this book help your code, it will also help you understand and interact with the many established Python communities, or even start your own. Take your Python knowledge and coding skills to the next level. Write clean, innovative code that will be respected among your peers. Make your code do more with introspection and

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metaprogramming. Design complete frameworks and libraries (two are included in the book!). For more information, including a link to the source code referenced in the book, please visit <http://propython.com/>.

The Hitchhiker's Guide to Python takes the journeyman Pythonista to true expertise. More than any other language, Python was created with the philosophy of simplicity and parsimony. Now 25 years old, Python has become the primary or secondary language (after SQL) for many business users. With popularity comes diversity—and possibly

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dilution. This guide, collaboratively written by over a hundred members of the Python community, describes best practices currently used by package and application developers. Unlike other books for this audience, The Hitchhiker's Guide is light on reusable code and heavier on design philosophy, directing the reader to excellent sources that already exist.

Learn to find software bugs faster and discover how other developers have solved similar problems. For intermediate to advanced iOS/macOS developers already

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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.

Today, Linux is included with nearly every embedded platform. Embedded developers can take a more modern route and spend more time tuning Linux and taking advantage of open source code to build more robust, feature-rich applications. While Gene Sally does not

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neglect porting Linux to new hardware, modern embedded hardware is more sophisticated than ever: most systems include the capabilities found on desktop systems. This book is written from the perspective of a user employing technologies and techniques typically reserved for desktop systems. Modern guide for developing embedded Linux systems Shows you how to work with existing Linux embedded system, while still teaching how to port Linux Explains best practices from somebody who has done it before

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