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Effective Software Development Series

From Thinking FORTH (PDF) Forth is what you ' d get if Python slept with Assembly Language ... Forth, and RPN, write this as 2 3 4 * + or 3 4 * 2 +. Either way, the operator works on whatever ...

Forth: The Hacker ' s Language

Python libraries to handle NMEA and geospatial data exist and work great. As mentioned, knowing the exact location of your base station is crucial to this project. There are several ways to obtain it.

Fail Of The Week: How Not To Build Your Own DGPS Base Station

So citizen developers are just a way to really digitize your company ... and make them more effective in a specific application development." This starts with understanding the problems that ...

Looking for citizen developers? Here's how to spot them in your team

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Unsupervised Learning Although the methods described earlier predict a specific outcome, unsupervised learning is ... ML models offer a scalable and objective way of gleaning insights from data.

Machine Learning in Oncology: Methods, Applications, and Challenges

One of the core modules provides experience of web-based programming languages such as HTML, CSS and JavaScript, whilst an optional module in customising GIS applications introduces Esri ' s ...

Geographic Information Systems

Optogenetics is another approach to manipulating the neuronal activity of a specific pathway by optical stimulation ... S3) and across the sessions [three-way analysis of variance (ANOVA); treatment \times ...

Chemogenetic dissection of the primate prefronto-subcortical pathways for working memory and decision-making

The results suggest that similar optimization strategy could be effective in improving treatment efficacy ... This produces a constitutively active, tumor-specific protein found in ~30% of patients (4 ...

Enhancing proteasomal processing improves survival for a peptide vaccine used to treat glioblastoma

Showcasing some of the biggest names in film history, pulling from masters that dominate our superlative lists of both country and decade-specific cinema ... you ' ll find a way into their ...

The 100 Best Movies on The Criterion Channel (July 2021)

and they claimed that delta is a brain wave specific to children. But delta waves are actually more closely associated with deep sleep. "Sleep is critical for development so in a contorted way you ...

Fact-checking claims about COVID variants, hydroxychloroquine and more

" The best way to protect yourself against these variants [is] to get fully vaccinated. So please, please, if you have one shot, get the second shot as soon as you can. So you ' re fully vaccinate ...

Biden marks milestone of 300 million coronavirus vaccination shots in 150 days

Or is it some kind of Monty Python ministry, e.g. "Ministry of Conflicting Decisions ... Otherwise, there has to be mutation specific to Japan already existing and they are supressing the fact due to ...

Gov't considering quasi-state of emergency in Tokyo during Olympics

66 Specific Ways to Debug Software and Systems By Diomidis Spinellis Book \$31.99 Read this on Safari
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"It's easy to start writing code with Python: that's why the language is so immensely popular. However, Python has unique strengths, charms, and expressivity that can be hard to grasp at first -- as well as hidden pitfalls that can easily trip you up if you aren't aware of them. Effective Python will help you harness the full power of Python to write exceptionally robust, efficient, maintainable, and well-performing code. Utilizing the concise, scenario-driven style pioneered in Scott Meyers's best-selling Effective C++, Brett Slatkin brings together 53 Python best practices, tips, shortcuts, and realistic code examples from expert programmers. Through realistic examples, Slatkin uncovers little-known Python quirks, intricacies, and idioms that powerfully impact code behavior and performance. You'll learn how to choose the most efficient and effective way to accomplish key tasks when multiple options exist, and how to write code that's easier to understand, maintain, and improve. Drawing on his deep understanding of Python's capabilities, Slatkin offers practical advice for each major area of development with both Python 3.x and Python 2.x. Coverage includes: * Algorithms * Objects * Concurrency * Collaboration * Built-in modules * Production techniques

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* And more Each section contains specific, actionable guidelines organized into items, each with carefully worded advice supported by detailed technical arguments and illuminating examples. Using Effective Python, you can systematically improve all the Python code you write: not by blindly following rules or mimicking incomprehensible idioms, but by gaining a deep understanding of the technical reasons why they make sense."--[Source inconnue].

Effective Python aims to provide the reader with an understanding of the "Pythonic" way of writing programs: the best way to use Python. New programmers will learn the best practices of Python's features. Experienced programmers will learn how to embrace the strangeness of a new tool with confidence. Like other Effective books, this book will be organized in a series of short items. Each chapter will cover a broad but related set of subjects. Each item will provide clear and concise guidance to the reader about how they can write Python programs more effectively. Each item will provide advice on what to do, what to avoid, how to strike the right balance, and why this is the best choice. Effective Python will prepare growing programmers to make a big impact using Python.

Every software developer and IT professional understands the crucial importance of effective debugging. Often, debugging consumes most of a developer's workday, and mastering the required techniques and skills can take a lifetime. In *Effective Debugging*, Diomidis Spinellis helps experienced programmers accelerate their journey to mastery, by systematically categorizing, explaining, and illustrating the most useful debugging methods, strategies, techniques, and tools. Drawing on more than thirty-five years of experience, Spinellis expands your arsenal of debugging techniques, helping you choose the best approaches for each challenge. He presents vendor-neutral, example-rich advice on general principles, high-level strategies, concrete techniques, high-efficiency tools, creative tricks, and the behavioral traits associated with effective debugging. Spinellis's 66 expert techniques address every facet of debugging and are illustrated with step-by-step instructions and actual code. He addresses the full spectrum of problems that can arise in modern software systems, especially problems caused by complex interactions among components and services running on hosts scattered around the planet. Whether you're debugging isolated runtime errors or catastrophic enterprise system failures, this guide will help you get the job done—more quickly, and with less pain. Key features include High-level strategies and methods for addressing diverse software failures Specific techniques to apply when programming, compiling, and running code Better ways to make the most of your debugger General-purpose skills and tools worth investing in Advanced ideas and techniques for escaping dead-ends and the maze of complexity Advice for making programs easier to debug Specialized approaches for debugging multithreaded, asynchronous, and embedded code Bug avoidance through improved software design, construction, and management

Write Truly Great iOS and OS X Code with Objective-C 2.0! *Effective Objective-C 2.0* will help you harness all of Objective-C's expressive power to write OS X or iOS code that works superbly well in production environments. Using the concise, scenario-driven style pioneered in Scott Meyers' best-selling *Effective C++*, Matt Galloway brings together 52 Objective-C best practices, tips, shortcuts, and realistic code examples that are available nowhere else. Through real-world examples, Galloway uncovers little-known Objective-C quirks, pitfalls, and intricacies that powerfully impact code behavior and performance. You'll learn how to choose the most efficient and effective way to accomplish key tasks when multiple options exist, and how to write code that's easier to understand, maintain, and improve. Galloway goes far beyond the core language, helping you integrate and leverage key Foundation framework classes and modern system libraries, such as Grand Central Dispatch. Coverage includes Optimizing interactions and relationships between Objective-C objects Mastering interface and API design: writing classes that feel "right at home" Using protocols and categories to write maintainable, bug-resistant code Avoiding memory leaks that can still occur even with Automatic Reference Counting (ARC) Writing modular, powerful code with Blocks and Grand Central Dispatch Leveraging differences between Objective-C protocols and multiple inheritance in other languages Improving code by more effectively using arrays, dictionaries, and sets Uncovering

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surprising power in the Cocoa and Cocoa Touch frameworks

Winner of the 2014 Jolt Award for "Best Book" "Whether you are an experienced programmer or are starting your career, Python in Practice is full of valuable advice and example to help you improve your craft by thinking about problems from different perspectives, introducing tools, and detailing techniques to create more effective solutions." --Doug Hellmann, Senior Developer, DreamHost If you're an experienced Python programmer, Python in Practice will help you improve the quality, reliability, speed, maintainability, and usability of all your Python programs. Mark Summerfield focuses on four key themes: design patterns for coding elegance, faster processing through concurrency and compiled Python (Cython), high-level networking, and graphics. He identifies well-proven design patterns that are useful in Python, illuminates them with expert-quality code, and explains why some object-oriented design patterns are irrelevant to Python. He also explodes several counterproductive myths about Python programming--showing, for example, how Python can take full advantage of multicore hardware. All examples, including three complete case studies, have been tested with Python 3.3 (and, where possible, Python 3.2 and 3.1) and crafted to maintain compatibility with future Python 3.x versions. All code has been tested on Linux, and most code has also been tested on OS X and Windows. All code may be downloaded at www.qtrac.eu/pipbook.html. Coverage includes Leveraging Python's most effective creational, structural, and behavioral design patterns Supporting concurrency with Python's multiprocessing, threading, and concurrent.futures modules Avoiding concurrency problems using thread-safe queues and futures rather than fragile locks Simplifying networking with high-level modules, including xmlrpclib and RPyC Accelerating Python code with Cython, C-based Python modules, profiling, and other techniques Creating modern-looking GUI applications with Tkinter Leveraging today's powerful graphics hardware via the OpenGL API using pyglet and PyOpenGL

Your Python code may run correctly, but you need it to run faster. Updated for Python 3, this expanded edition shows you how to locate performance bottlenecks and significantly speed up your code in high-data-volume programs. By exploring the fundamental theory behind design choices, High Performance Python helps you gain a deeper understanding of Python ' s implementation. How do you take advantage of multicore architectures or clusters? Or build a system that scales up and down without losing reliability? Experienced Python programmers will learn concrete solutions to many issues, along with war stories from companies that use high-performance Python for social media analytics, productionized machine learning, and more. Get a better grasp of NumPy, Cython, and profilers Learn how Python abstracts the underlying computer architecture Use profiling to find bottlenecks in CPU time and memory usage Write efficient programs by choosing appropriate data structures Speed up matrix and vector computations Use tools to compile Python down to machine code Manage multiple I/O and computational operations concurrently Convert multiprocessing code to run on local or remote clusters Deploy code faster using tools like Docker

Provides information on how to write better JavaScript programs, covering such topics as functions, arrays, library and API design, and concurrency.

CD-ROM contains cross-referenced code.

If you need help writing programs in Python 3, or want to update older Python 2 code, this book is just the ticket. Packed with practical recipes written and tested with Python 3.3, this unique cookbook is for experienced Python programmers who want to focus on modern tools and idioms. Inside, you ' ll find complete recipes for more than a dozen topics, covering the core Python language as well as tasks common to a wide variety of application domains. Each recipe contains code samples you can use in your projects right away, along with a discussion about how and why the solution works. Topics include: Data Structures and Algorithms Strings and Text Numbers, Dates, and Times Iterators and Generators Files and I/O Data Encoding and Processing Functions Classes and Objects Metaprogramming Modules and Packages Network and Web Programming Concurrency Utility Scripting and System Administration Testing, Debugging, and

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Exceptions C Extensions

Python's simplicity lets you become productive quickly, but this often means you aren't using everything it has to offer. With this hands-on guide, you'll learn how to write effective, idiomatic Python code by leveraging its best—and possibly most neglected—features. Author Luciano Ramalho takes you through Python's core language features and libraries, and shows you how to make your code shorter, faster, and more readable at the same time. Many experienced programmers try to bend Python to fit patterns they learned from other languages, and never discover Python features outside of their experience. With this book, those Python programmers will thoroughly learn how to become proficient in Python 3. This book covers:

- Python data model: understand how special methods are the key to the consistent behavior of objects
- Data structures: take full advantage of built-in types, and understand the text vs bytes duality in the Unicode age
- Functions as objects: view Python functions as first-class objects, and understand how this affects popular design patterns
- Object-oriented idioms: build classes by learning about references, mutability, interfaces, operator overloading, and multiple inheritance
- Control flow: leverage context managers, generators, coroutines, and concurrency with the `concurrent.futures` and `asyncio` packages
- Metaprogramming: understand how properties, attribute descriptors, class decorators, and metaclasses work

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