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Take some time read and
understand it, including the
Problem class that it

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(mt) Media Temple cannot assist you with this, but we strongly advise reviewing the official Python documentation for more

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The Hitchhiker's Guide to Python takes the journeyman Pythonista to true expertise. More than any

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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

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diversity—and possibly dilution. This guide, collaboratively written by over a hundred members of the Python community, describes best practices currently used by package and application developers.

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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.

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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 data science stack, but only

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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

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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

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machine learning models.
Quite simply, this is the
must-have reference for
scientific computing in
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you'll learn how to use:
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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

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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

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machine learning algorithms

Summary This third revision of Manning's popular The Quick Python Book offers a clear, crisp updated introduction to the elegant Python programming language

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and its famously easy-to-read syntax. Written for programmers new to Python, this latest edition includes new exercises throughout. It covers features common to other languages concisely, while introducing Python's

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comprehensive standard
functions library and unique
features in detail. Foreword
by Nicholas Tollervey,
Python Software Foundation.
Purchase of the print book
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formats from Manning Publications. About the Technology Initially Guido van Rossum's 1989 holiday project, Python has grown into an amazing computer language. It's a joy to learn and read, and powerful

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enough to handle everything from low-level system resources to advanced applications like deep learning. Elegantly simple and complete, it also boasts a massive ecosystem of libraries and frameworks.

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Python programmers are in high demand/ndash;you can't afford not to be fluent! About the Book The Quick Python Book, Third Edition is a comprehensive guide to the Python language by a Python authority, Naomi

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Ceder. With the personal touch of a skilled teacher, she beautifully balances details of the language with the insights and advice you need to handle any task. Extensive, relevant examples and learn-by-doing exercises

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help you master each important concept the first time through. Whether you're scraping websites or playing around with nested tuples, you'll appreciate this book's clarity, focus, and attention to detail. What's

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packages, and tools In-depth
exercises Five new data
science-related chapters
About the Reader Written for
readers familiar with
programming concepts--no

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Python experience assumed.
About the Author Naomi Ceder
is chair of the Python
Software Foundation. She has
been learning, using, and
teaching Python since 2001.
Table of Contents PART 1 -
STARTING OUT 1. About Python

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2. Getting started 3. The Quick Python overview PART 2 - THE ESSENTIALS 4. The absolute basics 5. Lists, tuples, and sets 6. Strings 7. Dictionaries 8. Control flow 9. Functions 10. Modules and scoping rules

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11. Python programs 12.
Using the filesystem 13.
Reading and writing files
14. Exceptions PART 3 -
ADVANCED LANGUAGE FEATURES
15. Classes and object-
oriented programming 16.
Regular expressions 17. Data

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types as objects 18.
Packages 19. Using Python
libraries PART 4 - WORKING
WITH DATA 20. Basic file
wrangling 21. Processing
data files 22. Data over the
network 23. Saving data 24.
Exploring data

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A guide to the Python computer language covers such topics as data types, control flow, functions and modules, exception handling, the GUI library, and input and output functionality.

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Named after the Monty Python comedy troupe, Python is an interpreted, open-source, object-oriented programming language. It's also free and runs portably on Windows, Mac OS, Unix, and other

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operating systems. Python can be used for all manner of programming tasks, from CGI scripts to full-fledged applications. It is gaining popularity among programmers in part because it is easier to read (and hence, debug)

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than most other programming languages, and it's generally simpler to install, learn, and use. Its line structure forces consistent indentation. Its syntax and semantics make it suitable for simple scripts

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and large programs. Its flexible data structures and dynamic typing allow you to get a lot done in a few lines. To learn it, you'll need is some basic programming experience and a copy of Python: Visual

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QuickStart Guide. In patented Visual QuickStart Guide fashion, the book doesn't just tell you how to use Python to develop applications, it shows you, breaking Python into easy-to-digest, step-by-step tasks

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and providing example code. Python: Visual QuickStart Guide emphasizes the core language and libraries, which are the building blocks for programs. Author Chris Fehily starts with the basics - expressions,

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statements, numbers, strings
- then moves on to lists,
dictionaries, functions, and
modules before wrapping
things up with
straightforward discussions
of exceptions and classes.
Some additional topics

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covered include: - Object-oriented programming-
Working in multiple operating systems-
Structuring large programs-
Comparing Python to C, Perl, and Java- Handling errors gracefully.

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showing the "wrong" way to do it, and code for the idiomatic, "Pythonic" alternative. *This version of the book is for Python 2.7.3+. There is also a Python 3.3+ version available.* "Writing

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commonly used piece of code.
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explanation of why the idiom
is important. It also
contains two code samples:
the "Harmful" way to write
it and the "Idiomatic" way.
* The "Harmful" way helps

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you identify the idiom in your own code. * The "Idiomatic" way shows you how to easily translate that code into idiomatic Python. This book is perfect for you: * If you're coming to Python from another

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programming language * If
you're learning Python as a
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increase the readability,
maintainability, and
correctness of your Python
code What is "Idiomatic"

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Python? Every programming language has its own idioms. Programming language idioms are nothing more than the generally accepted way of writing a certain piece of code. Consistently writing idiomatic code has a number

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of important benefits: *

- * Others can read and understand your code easily
- * Others can maintain and enhance your code with minimal effort
- * Your code will contain fewer bugs
- * Your code will teach others

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to write correct code
without any effort on your
part

Scripting with Python makes
you productive and increases
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author teaches you how to develop tailored, flexible, and efficient working environments built from small programs (scripts) written in Python. The focus is on examples and applications of relevance to

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gluing existing applications
and tools, e.g. for
automating simulation, data
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steering simulations and
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making computational Web
services; creating
interactive interfaces with
a Maple/Matlab-like syntax
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lambda functions Demystify

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concurrent code in Python
Extend Python with code
written in different
languages Integrate Python
with code written in
different languages Who this

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tool Learn about Python
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