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**Learn Python 3 The Hard
Way A Very Simple
Introduction To The
Terrifyingly Beautiful
World Of Computers And**

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The Hard Way A Very Simple

**Code Zed Shaws Hard
Way**

Get a comprehensive, in-depth introduction to the core Python language with this hands-on book. Based on author Mark Lutz's

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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

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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

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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

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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

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modules Dive into classes:
Beautiful World Of Computers
Python's object-oriented
And Code Zed Shaws Hard Way
programming tool for structuring
code Write large programs with
Python's exception-handling model
and development tools Learn
advanced Python tools, including

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decorators, descriptors,
metaclasses, and Unicode
processing

Summary Hello! Python fully covers
the building blocks of Python
programming and gives you a
gentle introduction to more

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advanced topics such as object-oriented programming, functional programming, network programming, and program design. New (or nearly new) programmers will learn most of what they need to know to start using Python

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immediately. About this Book
Programmers love Python because
it's fast and efficient. Shouldn't
learning Python be just the same?
Hello! Python starts quickly and
simply, with a line of Python code.
You'll learn the basics the right

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way--by writing your own programs.
Along the way, you'll get a gentle
introduction to more advanced
concepts and new programming
styles.> No experience with Python
needed. Exposure to another
programming language is helpful

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but not required. Purchase of the
print book comes with an offer of a
free PDF, ePub, and Kindle eBook
from Manning. Also available is all
code from the book. What Makes
Hello! Python special Learn Python
fast Even if you've never written a

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line of code before, you'll be writing
real Python apps in just an hour or
two. Great examples There's
something new in every chapter,
including games, web programming
with Django, databases, and more.
User Friendly guides Using lots of

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illustrations and a down-to-earth
writing style, this book invites you to
explore Python along with half-a-
dozen traveling companions from
the User Friendly cartoon strip. ===

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Organized Business-Oriented

Programming Classes and Object-

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Advanced Technology Django!

Gaming with Pyglet Twisted

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Networking Django Revisted!
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Where to from Here?
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The Markdown markup language is one of the most popular plain-text formatting languages available. Now you can learn the Markdown syntax with the book that's been

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called "the best Markdown
reference." Designed for both
novices and experts, The
Markdown Guide is a
comprehensive reference manual
that has everything you need to get
started and master the Markdown

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syntax.

Offers a Ruby tutorial featuring fifty-
two exercises that cover such
topics as installing the Ruby
environment, organizing and writing
code, strings and text, object-
oriented programming, debugging

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and automated testing, and basic
game development.
Learn Python the Hard Way
Python Crash Course, 2nd Edition
Learn Python Programming
A Complete Introduction to the
Python Language

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A Beginners Guide to Learn the
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The Ultimate Dinosaur Book
And Code Zed Shaws Hard Way
for Kids Welcome to the
exciting world of dinosaurs! In
this colourful dinosaur book,
best-selling non-fiction author
Jenny Kellett, has compiled

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*only the very best dinosaur
facts illustrated with detailed
color images of some of the
biggest and most fascinating
creatures to roam our planet.
From Tyrannosaurus-Rex and
Avaceratops to Camarasaurus*

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*and the Gastonia dinosaur,
discover more about your
favourite dinosaurs. Test your
dinosaur knowledge, or
challenge your friends, in the
ultimate dinosaur quiz.*
Dinosaur Book SampleLearn

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*these unbelievable dinosaur
facts and more: Most
dinosaurs were herbivores,
meaning they only ate plants.
The T-Rex is known for it's
small arms, but
proportionately, the*

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Canotaurus had smaller arms!
The Anchiornis was one of the
smallest dinosaurs, which was
not much larger than a pigeon.
You'll find these dinosaur facts
and many more in this
illustrated dinosaur book. With

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*20+ details dinosaur pictures,
even early readers will enjoy
The Ultimate Dinosaur Book
for Kids- as well as adults!
Perfect for teaching children
to read, while letting them
learn about the fascinating*

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*world of dinosaurs -The
Ultimate Dinosaur Book for
Kids is ideal for long car
journeys and bedtime reading.
Scroll up and click Buy Now
and help your child become a
dinosaur fact expert in no*

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time!

*I designed a learning system
for myself that quadrupled my
aptitude for learning computer
languages. It worked so well
for me that I've used it to
teach coding to grandmothers,*

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*cab drivers, musicians, and
50,000 other newbies.*
Washington University
*research shows that a key
teaching method I
use--interactive recall
practice--improves learning*

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performance 400 percent.
Computer languages are not
inherently hard to understand,
even for non-techies.
Remembering is the problem.
Research shows that you will
remember everything if you're

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repeatedly asked to recall it.
Beautiful World Of Computers
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That's the beauty of flash
cards. But technology offers an
even better way to make
information stick. With my
book you get almost a
thousand interactive

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exercises--they're free
online--that embed the whole
book in your memory.

*Algorithms check your work to
make sure you know what you
think you know. When you
stumble, you do the exercise*

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*again. You keep trying until
you know the chapter cold.
The exercises keep you
engaged, give you extra
practice where you're shaky,
and prepare you for each next
step. Every lesson is built on*

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*top of a solid foundation that
you and I have carefully
constructed. Each individual
step is small. But all the little
steps add up to real
knowledge--knowledge that
you retain. You don't need to*

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*be a computer genius to learn
Python. You just need to be
smart about how you learn
it.--Amazon.com description.
The second edition of the best-
selling Python book in the
world (over 1 million copies*

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sold!). A fast-paced, no-
Beautiful World Of Computers
nonsense guide to
And Code Zed Shows Hard Way
programming in Python.
Updated and thoroughly
revised to reflect the latest in
Python code and practices.
Python Crash Course is the

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*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*

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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.

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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:

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*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: •*

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*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*

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*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*

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*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!
If you need help writing*

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*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*

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*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*

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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

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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

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and Packages Network and
Web Programming
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Concurrency Utility Scripting
and System Administration
Testing, Debugging, and
Exceptions C Extensions
A Smarter Way to Learn

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A Brain-Friendly Guide
The Next Step for New Python
Programmers
Practical Programming for
Total Beginners

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Hello! Python

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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,

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Python has become the primary or secondary language (after SQL) for many business users. With popularity comes diversity—and possibly dilution. This guide, collaboratively written by over a hundred members of the Python

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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

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excellent sources that already exist.

You Will Learn Python! Zed Shaw

And Code Zed Shaws Hard Way
has perfected the world's best

system for learning Python. Follow

it and you will succeed-just like the

hundreds of thousands of beginners

Zed has taught to date! You bring

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the discipline, commitment, and persistence; the author supplies everything else. In *Learn Python the Hard Way, Third Edition*, you'll learn Python by working through 52 brilliantly crafted exercises. Read them. Type their code precisely. (No

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copying and pasting!) Fix your mistakes. Watch the programs run.

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As you do, you'll learn how software works; what good programs look like; how to read, write, and think about code; and how to find and fix your mistakes using tricks

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professional programmers use. Most
Beautiful World Of Computers
importantly, you'll learn the

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following, which you need to start
writing excellent Python software of

your own: Installing a complete

Python environment Organizing and

writing code Basic mathematics

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Variables Strings and text

Interacting with users Working with

files Looping and logic Data

structures using lists and

dictionaries Program design Object-

oriented programming Inheritance

and composition Modules, classes,

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and objects Python packaging
Beautiful World Of Computers
Debugging Automated testing Basic

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game development Basic web

development It'll be hard at first.

But soon, you'll just get it-and that

will feel great! This tutorial will

reward you for every minute you put

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into it. Soon, you'll know one of the world's most powerful, popular programming languages. You'll be a Python programmer. Watch Zed, too! The accompanying DVD contains 5+ hours of passionate, powerful teaching: a complete

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Python video course!

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Python is a powerful, expressive programming language that's easy to learn and fun to use! But books about learning to program in

Python can be kind of dull, gray, and boring, and that's no fun for

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anyone. Python for Kids brings Python to life and brings you (and your parents) into the world of programming. The ever-patient Jason R. Briggs will guide you through the basics as you experiment with unique (and often

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hilarious) example programs that feature ravenous monsters, secret agents, thieving ravens, and more.

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New terms are defined; code is colored, dissected, and explained; and quirky, full-color illustrations keep things on the lighter side.

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Chapters end with programming puzzles designed to stretch your brain and strengthen your understanding. By the end of the book you'll have programmed two complete games: a clone of the famous Pong and "Mr. Stick Man

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Races for the Exit"—a platform game
Beautiful World Of Computers
with jumps, animation, and much
And Code Zed Shaws Hard Way

more. As you strike out on your

programming adventure, you'll

learn how to: -Use fundamental

data structures like lists, tuples, and

maps -Organize and reuse your

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code with functions and modules
-Use control structures like loops
and conditional statements -Draw
shapes and patterns with Python's
turtle module -Create games,
animations, and other graphical
wonders with tkinter Why should

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serious adults have all the fun?

Beautiful World Of Computers
Python for Kids is your ticket into

And Code Zed Shaws Hard Way
the amazing world of computer

programming. For kids ages 10+

(and their parents) The code in this

book runs on almost anything:

Windows, Mac, Linux, even an

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OLPC laptop or Raspberry Pi!
See all the things coding can
accomplish The demand for people
with coding know-how exceeds the
number of people who understand
the languages that power
technology. Coding All-in-One For

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Dummies gives you an ideal place to start when you're ready to add this valuable asset to your professional repertoire. Whether you need to learn how coding works to build a web page or an application or see how coding drives the data

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revolution, this resource introduces the languages and processes you'll need to know. Peek inside to quickly learn the basics of simple web languages, then move on to start thinking like a professional coder and using languages that power big

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applications. Take a look inside for the steps to get started with updating a website, creating the next great mobile app, or exploring the world of data science. Whether you're looking for a complete beginner's guide or a trusted resource for when

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you encounter problems with
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coding, there's something for you!

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Create code for the web Get the

tools to create a mobile app

Discover languages that power data

science See the future of coding wit

machine learning tools With the

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demand for skilled coders at an all-time high, Coding All-in-One For Dummies is here to propel coding newbies to the ranks of professional programmers.

Modern Computing in Simple Packages

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Learn Python the hard way :

Release 2.0

Python Basics

Automate the Boring Stuff with

Python, 2nd Edition

A Practical Introduction to Python 3

A Hands-On, Project-Based

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Beautiful World Of Computers
A Playful Introduction To
Programming
And Code Zed Shaws Hard Way

**Python 3 is the best version
of the language yet: It is more
powerful, convenient,
consistent, and expressive**

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**than ever before. Now,
leading Python programmer
Mark Summerfield
demonstrates how to write
code that takes full
advantage of Python 3's
features and idioms. The first
book written from a**

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**completely “Python 3”
viewpoint, Programming in
Python 3 brings together all
the knowledge you need to
write any program, use any
standard or third-party
Python 3 library, and create
new library modules of your**

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own. Summerfield draws on his many years of Python experience to share deep insights into Python 3 development you won't find anywhere else. He begins by illuminating Python's "beautiful heart": the eight

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**key elements of Python you
need to write robust, high-
performance programs.
Building on these core
elements, he introduces new
topics designed to strengthen
your practical expertise—one
concept and hands-on**

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And Code: Zed A. Shaw's The Hard Way

example at a time. This book's coverage includes Developing in Python using procedural, object-oriented, and functional programming paradigms Creating custom packages and modules Writing and reading binary,

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parsing Leveraging advanced

data types, collections,

control structures, and

functions Spreading program

workloads across multiple

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And Code 7th Edition The Hard Way
processes and threads
**Programming SQL databases
and key-value DBM files
Utilizing Python's regular
expression mini-language and
module Building usable,
efficient, GUI-based
applications Advanced**

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**programming techniques,
including generators, function
and class decorators, context
managers, descriptors,
abstract base classes,
metaclasses, and more**

**Programming in Python 3
serves as both tutorial and**

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language reference, and it is accompanied by extensive downloadable example code—all of it tested with the final version of Python 3 on Windows, Linux, and Mac OS X.

Move from zero knowledge of

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**programming to comfortably
writing small to medium-sized
programs in Python. Fully
updated for Python 3, with
code and examples
throughout, the book explains
Python coding with an
accessible, step-by-step**

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**approach designed to bring
you comfortably into the
world of software
development. Real-world
analogies make the material
understandable, with a wide
variety of well-documented
examples to illustrate each**

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And C++ The Hard Way

challenges that reinforce the

content of the chapters. Learn

to Program with Python 3

guides you with material

developed in the author's

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And Code That Shows How It
Works

**university computer science
courses. The author's
conversational style feels like
you're working with a
personal tutor. All material is
thoughtfully laid out, each
lesson building on previous
ones. What You'll Learn**

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**Understand programming
basics with Python, based on
material developed in the
author's college courses
Learn core concepts:
variables, functions,
conditionals, loops, lists,
strings, and more Explore**

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example programs including
simple games you can
program and customize Build
modules to reuse your own
code Who This Book Is For
This book assumes no prior
programming experience, and
would be appropriate as text

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**for a high school or college
introduction to computer
science.**

**Build a solid foundation in
coding by utilizing the
language and its core
characteristics Key Features
Leverage the features of**

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**Python programming through
easy-to-follow examples
Develop a strong set of
programming skills that can
be applied on all platforms
Create GUIs and data science-
based applications Book
Description Learn Python**

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**Programming creates a
foundation for those who are
interested in developing their
skills in Python programming.
The book starts with the
fundamentals of programming
with Python and ends by
exploring different topics**

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And Grids To Do Things The Hard Way

and fundamental topics on

Python and learn to

manipulate them. Then, you'll

explore different

programming paradigms that

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will allow you to find the best approach to a situation, and you'll also understand how to carry out performance optimization as well as effective debugging. As you make your way through the chapters, you'll control the

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**flow of a program, and persist
and utilize an interchange
format to exchange data.
You'll also walk through
cryptographic services in
Python and understand
secure tokens. Throughout,
the book covers various types**

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of applications, and it concludes with building real-world applications based on all the concepts that you learned. By the end of the book, you'll have a proper understanding of the Python language and a solid grasp on

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And Guido Van Rossum Shows The Hard Way

**how to work with data. You'll
know how to quickly build a
website and harness the
power of Python's renowned
data science libraries. What
you will learn Get Python up
and running on Windows,
Mac, and Linux Grasp**

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**fundamental concepts of
coding using data structures
and control flow Write
elegant, reusable, and
efficient code in any situation
Understand when to use the
functional or object-oriented
programming (OOP) approach**

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programming Create

bulletproof, reliable software

by writing tests Explore

examples of GUIs, scripting,

and data science Who this

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Programming is for
individuals with relatively
little experience in coding or
Python. It's also ideal for
aspiring programmers who
need to write scripts or
programs to accomplish**

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**tasks. The book takes you all
the way to creating a full-
fledged application.
Written by the world-
renowned Zed Shaw, this
book of 52 hands-on projects
is perfect for everyone who's
written Python code but isn't**

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yet comfortable taking new
ideas all the way to finished
software. The perfect follow-
up to Shaw's best-selling
"Learn Python the Hard Way,"
this all-new, step-by-step
book teaches you how to:
Approach new problems in

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**ways that lead to better
solutions Analyze a concept,
idea, or problem to implement
in code Design a solution
based on your analysis
Implement your solution in
the simplest way possible
Systematically improve your**

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**programming skills through
real projects Each project in
Learn More Python the Hard
Way helps you build a key
practical skill -- combining
demonstrations to get you
started, and challenges to
help you achieve even deeper**

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organizes this practical
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commands, organizing and
using data, applying
algorithms, processing text,
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Shaw stresses efficient
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hacking mindsets -- helping
you gain true mastery, not
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The no-nonsense, beginner's
guide to programming, data
science, and web
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**Best Practices for Writing
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Python Cookbook

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PyGame to design and build
cool arcade games. In

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Program Arcade Games: With
Beautiful World Of Computers
Python and PyGame, Second
Edition, Dr. Paul Vincent
Craven teaches you how to
create fun and simple quiz
games; integrate and start
using graphics; animate

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graphics; integrate and
use game controllers; add
sound and bit-mapped
graphics; and build grid-
based games. After reading
and using this book,
you'll be able to learn to

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program and build simple
arcade game applications
using one of today's most
popular programming
languages, Python. You can
even deploy onto Steam and
other Linux-based game

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systems as well as
Android, one of today's
most popular mobile and
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learn: How to create quiz
games How to integrate and
start using graphics How

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controllers How to add
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brilliantly crafted
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their code precisely. (No
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your mistakes. Watch the programs run. As you do, you'll learn how a computer works; what good programs look like; and how to read, write, and think about code. Zed then

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teaches you even more in
5+ hours of video where he
shows you how to break,
fix, and debug your
code—live, as he's doing
the exercises. Install a
complete Python

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write code Fix and break
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Variables Strings and text
Interact with users Work
with files Looping and
logic Data structures

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using lists and
dictionaries Program
design Object-oriented
programming Inheritance
and composition Modules,
classes, and objects
Python packaging Automated

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at first. But soon, you'll
just get it—and that will
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will reward you for every

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popular programming
languages. You'll be a
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one or two languages
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professionals looking for
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a fast, simple, crash
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course in Python 3

The goal of this book is
to teach you to think like
a computer scientist. This
way of thinking combines

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some of the best features
of mathematics,
engineering, and natural
science. Like
mathematicians, computer
scientists use formal
languages to denote ideas

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(specifically
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computations). Like
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engineers, they design
things, assembling
components into systems
and evaluating tradeoffs
among alternatives. Like

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scientists, they observe
the behavior of complex
systems, form hypotheses,
and test predictions. The
single most important
skill for a computer
scientist is problem

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solving. Problem solving
means the ability to
formulate problems, think
creatively about
solutions, and express a
solution clearly and
accurately. As it turns

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out, the process of
learning to program is an
excellent opportunity to
practice problem-solving
skills. That's why this
chapter is called, The way
of the program. On one

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level, you will be
learning to program, a
useful skill by itself. On
another level, you will
use programming as a means
to an end. As we go along,
that end will become

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clearer.

The second edition of this
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(over 500,000 copies
sold!) uses Python 3 to
teach even the technically
uninclined how to write

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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

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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

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your computer do them for
you? In this fully revised

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the Boring Stuff with

Python, you'll learn how

to use Python to write

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programs that do in
minutes what would take
you hours to do by
hand--no prior programming
experience required.
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Python and explore

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modules for performing
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specific tasks, like
scraping data off
websites, reading PDF and
Word documents, and
automating clicking and

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typing tasks. The second
edition of this
international fan favorite
includes a brand-new
chapter on input
validation, as well as
tutorials on automating

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Gmail and Google Sheets,
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updating CSV files. You'll
learn how to create
programs that effortlessly
perform useful feats of
automation to: • Search

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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

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size • Split, merge,
watermark, and encrypt
PDFs • Send email
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notifications • Fill out
online forms Step-by-step

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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

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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

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A Gentle Introduction to
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Numerical Simulations with
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Your stepping stone to
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A Very Simple Introduction

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"This book is organized
around three concepts
fundamental to OS
construction: virtualization
(of CPU and memory),

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concurrency (locks and
condition variables), and
persistence (disks, RAIDS,
and file systems"--Back
cover.

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fast-paced, thorough
introduction to Python that

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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 about basic
programming concepts, such
as lists, dictionaries,

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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

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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-handly

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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

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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

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-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

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videos, where he shows you how to break, fix, and debug your code. First, you'll discover how to analyze a concept, idea, or problem to implement in software. Then, step by step, you'll learn to design solutions based on

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your analyses and implement them as simply and elegantly as possible. Throughout, Shaw stresses process so you can get started and build momentum, creativity to solve new problems, and quality so you'll build code

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complex projects with a
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of data structures Apply
algorithms to process your
data structures Master
indispensable text parsing

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complete projects It'll be
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will reward you for every
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merely writing code that
runs: you'll craft high-
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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

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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

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earlier Python 2 version of
this book is titled "Python
for Informatics: Exploring
Information". There are free

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Exploring Data in Python 3
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- Python

Have you been thinking

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STOP wasting time!! Keep
reading and learn more.. If
you came across this book I
am sure you know the
incredible impact Python

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Programming has these days. Python is a simplistic language, however, without something to guide you through the fundamental concepts of programming, you can easily learn

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everything the wrong way
and someday anger all of
your programmer friends.
With the help of this Python
Programming, you will take
the very first step in
exploring programming in

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general, as well as the capabilities of Python. In this book you will learn all the core concepts, one step at a time and this is the same approach you should take when practicing. You

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will learn new operations
you can perform on the
various data types and data
structures, and then work to
get used to relying more and
more on object-oriented
programming techniques.

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Use this knowledge to pursue machine learning projects, create robots, or build the next big web application that will take over the world. More specifically this guide will

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take you through: Specific
Python Basic Syntax Rules,
Variables and Values The

Theory of Computer

Programming Working With

Your Objects And Classes

Inside Of Python How to Use

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Your Python Skills Working
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Neighbors Algorithm
Making a Basic Python
Game: Hangman Machine
Learning Models Tips For
Success Practical exercises

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to text your skills...and
MUCH MORE!! Even if you
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need any kind of special
talent to become a
programmer, or even a data
scientist. All you need to do

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is understand the theory and
then put it in application. If
you can't grasp it at first,
break it down and study it
line by line. Squeeze the
knowledge out of Python
and apply it in the real

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And Code Zed Shaws Hard Way
from fundamental
algorithms, such as sorting
and searching, to modern
algorithms used in machine
learning and cryptography
Key Features Learn the
techniques you need to

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know to design algorithms
for solving complex
problems Become familiar
with neural networks and
deep learning
techniques Explore different
types of algorithms and

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choose the right data
structures for their optimal
implementation

Book
Description Algorithms have
always played an important
role in both the science and
practice of computing.

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Beyond traditional computing, the ability to use algorithms to solve real-world problems is an important skill that any developer or programmer must have. This book will

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help you not only to develop
the skills to select and use
an algorithm to solve real-
world problems but also to
understand how it works.
You'll start with an
introduction to algorithms

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and discover various
algorithm design
techniques, before exploring
how to implement different
types of algorithms, such as
searching and sorting, with
the help of practical

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examples. As you advance to
a more complex set of
algorithms, you'll learn
about linear programming,
page ranking, and graphs,
and even work with machine
learning algorithms,

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understanding the math and
logic behind them. Further
on, case studies such as
weather prediction, tweet
clustering, and movie
recommendation engines
will show you how to apply

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these algorithms optimally. Finally, you'll become well versed in techniques that enable parallel processing, giving you the ability to use these algorithms for compute-intensive tasks. By

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the end of this book, you'll
have become adept at
solving real-world
computational problems by
using a wide range of
algorithms. What you will
learnExplore existing data

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structures and algorithms
found in Python
librariesImplement graph
algorithms for fraud
detection using network
analysisWork with machine
learning algorithms to

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cluster similar tweets and
process Twitter data in real
timePredict the weather
using supervised learning
algorithmsUse neural
networks for object
detectionCreate a

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recommendation engine that
suggests relevant movies to
subscribersImplement
foolproof security using
symmetric and asymmetric
encryption on Google Cloud
Platform (GCP)Who this

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book is for This book is for
programmers or developers
who want to understand the
use of algorithms for
problem-solving and writing
efficient code. Whether you
are a beginner looking to

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learn the most commonly
used algorithms in a clear
and concise way or an
experienced programmer
looking to explore cutting-
edge algorithms in data
science, machine learning,

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and cryptography, you'll find
this book useful. Although
Python programming
experience is a must,
knowledge of data science
will be helpful but not
necessary.

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BRIDGE THE GAP
BETWEEN NOVICE AND
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finished Al Sweigart's
bestseller, Automate the

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Boring Stuff with Python.
Beautiful World Of Computers
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What's the next step toward
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confident software
developer? Welcome to
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Python. More than a mere

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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

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like code formatters, type
checkers, linters, and
version control. Sweigart
takes you through best
practices for setting up your
development environment,
naming variables, and

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improving readability, then
tackles documentation,
organization and
performance measurement,
as well as object-oriented
design and the Big-O
algorithm analysis

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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

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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

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- Cookiecutter template tool
- Functional programming techniques like lambda and higher-order functions
- How to profile the speed of your code with Python's built-in timeit and cProfile

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modules • The computer
Beautiful World Of Computers
science behind Big-O
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algorithm analysis • How to
make your comments and
docstrings informative, and
how often to write them •
How to create classes in

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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

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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

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skills by implementing the
program 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

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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

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Explains how to leverage the
revolutionary Raspberry Pi
computer in order to learn
the versatile Python
programming language.
Original.

The Ultimate Dinosaur Book

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A Simple and Idiomatic
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Imaginative World of
Computational Thinking
with Code
Hone your problem-solving

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skills by learning different
algorithms and their
implementation in Python

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COMPUTER SCIEN

Introducing Python

Python In Your Pocket

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With Python and Pygame
***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***

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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

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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

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***each concept and language
feature 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***

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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

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**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.**

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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

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***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***

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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

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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

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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

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Python Developers Say About

The Book: "Go forth and learn

this amazing language using this

great book." - Michael Kennedy,

Talk Python "The wording is

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And Code That Shows You How
- 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

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And Cool Tech Show How
**screencasts. I gave up on
countless crufty 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**

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And Code: The Step-By-Step
Hard Way

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
A clear, comprehensible, and

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practical guide to the essentials of computer cryptography, from Caesar's Cipher through modern-day public key. Cryptographic capabilities like detecting imposters and stopping eavesdropping are thoroughly illustrated with easy-to-

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***understand analogies, visuals,
and historical sidebars. The
student needs little or no
background in cryptography to
read Cryptography Decrypted.***

***Nor does it require technical or
mathematical expertise. But for
those with some understanding***

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of the subject, this book is

comprehensive enough to solidify

knowledge of computer

cryptography and challenge

those who wish to explore the

high-level math appendix.

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language without slogging your

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***way through how-to manuals?
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fundamentals, working with the
built-in data structures and***

***functions. Then you'll move on to
building your very own webapp,
exploring database management,***

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**exception handling, and data
wrangling. If you're intrigued by
what you can do with context
managers, decorators,
comprehensions, and generators,
it's all here. This second edition
is a complete learning experience
that will help you become a**

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***bonafide Python programmer in
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so different? Based on the latest

research in cognitive science and

learning theory, Head First

Python uses a visually rich format

to engage your mind, rather than

a text-heavy approach that puts

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***you to sleep. Why waste your
time struggling with new
concepts? This multi-sensory
learning experience is designed
for the way your brain really
works.***

***Learn how to hack systems like
black hat hackers and secure***

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**them like security experts Key
Features Understand how
computer systems work and their
vulnerabilities Exploit
weaknesses and hack into
machines to test their security
Learn how to secure systems
from hackers Book Description**

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This book starts with the basics of ethical hacking, how to practice hacking safely and legally, and how to install and interact with Kali Linux and the Linux terminal. You will explore network hacking, where you will see how to test the security of

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wired and wireless networks.
**You'll also learn how to crack the
password for any Wi-Fi network
(whether it uses WEP, WPA, or
WPA2) and spy on the connected
devices. Moving on, you will
discover how to gain access to
remote computer systems using**

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client-side and server-side attacks. You will also get the hang of post-exploitation techniques, including remotely controlling and interacting with the systems that you compromised. Towards the end of the book, you will be able to

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pick up web application hacking techniques. You'll see how to

discover, exploit, and prevent a number of website

vulnerabilities, such as XSS and

SQL injections. The attacks

covered are practical techniques

that work against real systems

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and are purely for educational purposes. At the end of each section, you will learn how to detect, prevent, and secure systems from these attacks.

What you will learn Understand ethical hacking and the different fields and types of hackers Set

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***up a penetration testing lab to
practice safe and legal hacking
Explore Linux basics, commands,
and how to interact with the
terminal Access password-
protected networks and spy on
connected clients Use server and
client-side attacks to hack and***

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control remote computers

Control a hacked system

remotely and use it to hack other

systems Discover, exploit, and

prevent a number of web

application vulnerabilities such

as XSS and SQL injections Who

this book is for Learning Ethical

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**Hacking from Scratch is for
anyone interested in learning
how to hack and test the security
of systems like professional
hackers and security experts.
40 Algorithms Every Programmer
Should Know
Learn More Python the Hard Way**

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Cryptography Decrypted
Recipes for Mastering Python 3
Learn Ethical Hacking from
Scratch
Head First Python
Master Python Programming
with a unique Hands-On

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Project Have you always
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wanted to learn computer
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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

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fast? This book is for you.
You no longer have to waste
your time and money learning
Python from lengthy books,
expensive online courses or
complicated Python
tutorials. What this book
offers... Python for

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Beginners Complex concepts
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are broken down into simple
And Code Zed Shaw Hard Way
steps to ensure that you can
easily master the Python
language even if you have
never coded before.
Carefully Chosen Python
Examples Examples are

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And Code Zed Shaws Hard Way
carefully chosen to
illustrate all concepts. In
addition, the output for all
examples are provided
immediately so you do not
have to wait till you have
access to your computer to
test the examples. Learn The

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Python Programming Language
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Fast Concepts are presented
in a "to-the-point" style to
cater to the busy
individual. With this book,
you can learn Python in just
one day and start coding
immediately. How is this

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book different... The best
way to learn Python is by
doing. This book includes a
complete project at the end
of the book that requires
the application of all the
concepts taught previously.
Working through the project

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will not only give you an
immense sense of
achievement, it'll also help
you retain the knowledge and
master the language. Are you
ready to dip your toes into
the exciting world of Python
coding? This book is for

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need to code and run Python
programs? What are
variables? What mathematical
operators are there in

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Python? What are the common
data types in Python? What
are Lists and Tuples? How to
format strings How to accept
user inputs and display
outputs How to make
decisions with If statements
How to control the flow of

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program with loops 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 .. and more...
Finally, you'll be guided

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through a hands-on project
that requires the
application of all the
topics covered. Click the
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start learning Python. Learn
it fast and learn it well.
Easy to understand and fun

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Python is ideal for
beginning programmers as
well as those new to the
language. Author Bill
Lubanovic takes you from the
basics to more involved and

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varied topics, mixing
tutorials with cookbook-
style code recipes to
explain concepts in Python
3. End-of-chapter exercises
help you practice what
you've learned. You'll gain
a strong foundation in the

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language, including best
practices for testing,
debugging, code reuse, and
other development tips. This
book also shows you how to
use Python for applications
in business, science, and
the arts, using various

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Python tools and open source
Beautiful World Of Computers
packages.

The human brain is made up
of 85 billion neurons, which
are connected by over 100
trillion synapses. For more
than a century, a diverse
array of researchers

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searched for a language that
could be used to capture the
essence of what these
neurons do and how they
communicate - and how those
communications create
thoughts, perceptions and
actions. The language they

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were looking for was
mathematics, and we would
not be able to understand
the brain as we do today
without it. In Models of the
Mind, author and
computational neuroscientist
Grace Lindsay explains how

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mathematical models have
allowed scientists to
understand and describe many
of the brain's processes,
including decision-making,
sensory processing,
quantifying memory, and
more. She introduces readers

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to the most important
concepts in modern
neuroscience, and highlights
the tensions that arise when
the abstract world of
mathematical modelling
collides with the messy
details of biology. Each

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chapter of Models of the
Mind focuses on mathematical
tools that have been applied
in a particular area of
neuroscience, progressing
from the simplest building
block of the brain - the
individual neuron - through

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to circuits of interacting
neurons, whole brain areas
and even the behaviours that
brains command. In addition,
Grace examines the history
of the field, starting with
experiments done on frog
legs in the late eighteenth

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century and building to the
large models of artificial
neural networks that form
the basis of modern
artificial intelligence.
Throughout, she reveals the
value of using the elegant
language of mathematics to

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describe the machinery of
neuroscience.
Updated for both Python 3.4
and 2.7, this convenient
pocket guide is the perfect
on-the-job quick reference.
You'll find concise, need-to-
know information on Python

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types and statements,
special method names, built-
in functions and exceptions,
commonly used standard
library modules, and other
prominent Python tools. The
handy index lets you
pinpoint exactly what you

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need. Written by Mark
Lutz—widely recognized as
the world's leading Python
trainer—Python Pocket
Reference is an ideal
companion to O'Reilly's
classic Python tutorials,
Learning Python and

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Programming Python, also
written by Mark. This fifth
edition covers: Built-in
object types, including
numbers, lists,
dictionaries, and more
Statements and syntax for
creating and processing

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objects Functions and
modules for structuring and
reusing code Python's object-
oriented programming tools
Built-in functions,
exceptions, and attributes
Special operator overloading
methods Widely used standard

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library modules and
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options and development
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hints The Python SQL
Database API
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Programming

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The Hitchhiker's Guide to
Python
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Computational Subjects You
Keep Avoiding (Like C)
How Physics, Engineering and
Mathematics Have Shaped Our

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3

Python Scripting for ArcGIS Pro is the definitive, easy-to-follow guide to writing useful Python code with spatial data in ArcGIS Pro, whether you're new to

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programming or not.

This book presents computer programming as a key method for solving mathematical problems. There are two versions of the book, one for MATLAB and one for Python. The book was inspired by the Springer book TCSE 6: A Primer on Scientific Programming with Python (by

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Langtangen), but the style is more accessible and concise, in keeping with the needs of engineering students. The book outlines the shortest possible path from no previous experience with programming to a set of skills that allows the students to write simple programs for solving common mathematical problems with numerical methods in

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*engineering and science courses. The
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emphasis is on generic algorithms, clean
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design of programs, use of functions, and
automatic tests for verification.*

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the perfect course for the beginning C
programmer eager to advance their skills in
any language. Follow it and you will learn
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has taught to date! You bring discipline,*

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commitment, persistence, and experience
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with any programming language; the author
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supplies everything else. In Learn C the
Hard Way , you'll learn C by working
through 52 brilliantly crafted exercises.
Watch Zed Shaw's teaching video and read
the exercise. Type his code precisely. (No
copying and pasting!) Fix your mistakes.

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Watch the programs run. As you do, you'll learn what good, modern C programs look like; how to think more effectively about code; and how to find and fix mistakes far more efficiently. Most importantly, you'll master rigorous defensive programming techniques, so you can use any language to create software that protects itself from

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malicious activity and defects. Through practical projects you'll apply what you learn to build confidence in your new skills. Shaw teaches the key skills you need to start writing excellent C software, including Setting up a C environment Basic syntax and idioms Compilation, make files, and linkers Operators, variables, and data types

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*Program control Arrays and strings
Functions, pointers, and structs Memory
allocation I/O and files Libraries Data
structures, including linked lists, sort, and
search Stacks and queues Debugging,
defensive coding, and automated testing
Fixing stack overflows, illegal memory
access, and more Breaking and hacking*

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