

Where To
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For Everybody
Python

For

Everybody

This educational
book introduces
emerging
developers to
computer
programming
through the Python

Where To
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software
development
language, and
serves as a
reference book for
experienced
developers looking
to learn a new
language or re-
familiarize
themselves with
computational logic

Where To Download Python For Everybody and syntax.

Learn how to safely
create electronic
circuits using
conductive and
insulating doughs.
Readers will learn
basic circuitry
skills, which will be
useful in pursuing
a variety of
engineering

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**projects. Photos,
sidebars, and
callouts help
readers draw
connections
between new
concepts in this
book and other
makers-related
concepts they may
already know.**

Additional text

Where To
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For Everybody
features and search
tools, including a
glossary and an
index, help
students locate
information and
learn new words.
Python for
Software Design is
a concise
introduction to
software design

Where To
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using the Python
programming
language. The
focus is on the
programming
process, with
special emphasis on
debugging. The
book includes a
wide range of
exercises, from
short examples to

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substantial
projects, so that
students have
ample opportunity
to practice each
new concept.

Python's simplicity
lets you become
productive quickly,
but this often
means you aren't
using everything it

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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

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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

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**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**

Where To
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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**

Where To
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**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**

Where To
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**classes by learning
about references,
mutability,
interfaces, operator
overloading, and
multiple
inheritance Control
flow: leverage
context managers,
generators,
coroutines, and
concurrency with**

Where To
Download Python
For Everybody
the

**concurrent.futures
and asyncio
packages**

**Metaprogramming:
understand how
properties,
attribute**

**descriptors, class
decorators, and
metaclasses work**

Created for

Page 14/244

Where To
Download Python
For Everybody
**developers of all
skill levels to find
the essentials of
common operations
combined with the
fastest reference
guide for writing
code. This handy 6
page laminated
guide is a concise
desktop reference
to key concepts**

Where To Download Python For Everybody behind Python

logic, syntax, and
operation. Expertly
written to concisely
cover the planning
of a program
written in Python,
assigning your first
variables,
importing other
libraries,
formatting output

Where To
Download Python
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strings, and
creating classes.
Beginning students
or seasoned
programmers will
find this tool a
perfect go-to for
reference to those
core concepts. This
unbeatable value
makes it easy to
add this reference

Where To
Download Python
For Everybody
to your
programmer's
toolbox. 6 page
laminated guide
includes: Working
with Python Using
Python Code
Importing Modules
Scope (Indentation)
Naming
Conventions
Reserved Keywords

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Comments Writing

Code Basics

Making Variables

Types Console

Error Handling

Saving & Loading

Files Coding

Structures Math

**Operators (int,
float & complex)**

List Operations

(list, tuple & dict)

Where To
Download Python
For Everybody

Strings Statements

Functions

Dictionaries Using

Structures String

Formatting String

Methods Escape

Sequences Bool

Characters Writing

Boolean Statements

Recursion &

Iteration Classes

Coding Concepts

Where To
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Inheritance

Generators

Polymorphism

Lambda

Expressions

**If you want a basic
understanding of
computer vision's
underlying theory
and algorithms,
this hands-on
introduction is the**

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ideal place to start.

**You'll learn
techniques for
object recognition,
3D reconstruction,
stereo imaging,
augmented reality,
and other computer
vision applications
as you follow clear
examples written in
Python.**

Where To Download Python For Everybody Programming

Computer Vision with Python

explains computer vision in broad terms that won't bog you down in theory. You get complete code samples with explanations on how to reproduce

Where To
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**and build upon
each example,
along with
exercises to help
you apply what
you've learned.
This book is ideal
for students,
researchers, and
enthusiasts with
basic programming
and standard**

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mathematical
skills. Learn
techniques used in
robot navigation,
medical image
analysis, and other
computer vision
applications Work
with image
mappings and
transforms, such as
texture warping

Where To
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and panorama
creation Compute
3D reconstructions
from several
images of the same
scene Organize
images based on
similarity or
content, using
clustering methods
Build efficient
image retrieval

Where To
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techniques to
search for images
based on visual
content Use
algorithms to
classify image
content and
recognize objects
Access the popular
OpenCV library
through a Python
interface

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**The fundamental
mathematical tools
needed to
understand
machine learning
include linear
algebra, analytic
geometry, matrix
decompositions,
vector calculus,
optimization,
probability and**

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statistics. These
topics are
traditionally taught
in disparate
courses, making it
hard for data
science or
computer science
students, or
professionals, to
efficiently learn the
mathematics. This

Where To Download Python For Everybody **self-contained**

**textbook bridges
the gap between
mathematical and
machine learning
texts, introducing
the mathematical
concepts with a
minimum of
prerequisites. It
uses these concepts
to derive four**

Where To
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**central machine
learning methods:
linear regression,
principal
component
analysis, Gaussian
mixture models
and support vector
machines. For
students and others
with a
mathematical**

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background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with

Where To
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applying
mathematical
concepts. Every
chapter includes
worked examples
and exercises to
test understanding.
Programming
tutorials are
offered on the
book's web site.
Covers the features

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of Ruby, including
such topics as
strings, class
hierarchies, arrays
and hashes, loops,
methods, exception
handling, symbols,
YAML, and
debugging.

[Learning to
Program with AI,
Big Data and the](#)

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Ultimate Step by
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Machine Learning
Using Python

The Book of Ruby
Python for
Informatics

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Practical

Programming for

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with Python

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Squishy Circuits

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Python for
Everybody Exploring
Data in Python 3
Build software that
combines Python's
expressivity with the
performance and
control of C (and
C++). It's possible
with Cython, the
compiler and hybrid
programming
language used by

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foundational packages such as NumPy, and prominent in projects including Pandas, h5py, and scikits-learn. In this practical guide, you'll learn how to use Cython to improve Python's performance—up to 3000x—and to wrap

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C and C++ libraries in Python with ease. Author Kurt Smith takes you through Cython's capabilities, with sample code and in-depth practice exercises. If you're just starting with Cython, or want to go deeper, you'll learn how this

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language is an essential part of any performance-oriented Python programmer's arsenal. Use Cython's static typing to speed up Python code Gain hands-on experience using Cython features to boost your numeric-

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heavy Python

Create new types
with Cython and see
how fast object-
oriented

programming in

Python can be

Effectively organize

Cython code into

separate modules

and packages

without sacrificing

performance Use

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Cython to give
Pythonic interfaces
to C and C++
libraries Optimize
code with Cython's
runtime and compile-
time profiling tools
Use Cython's
prange function to
parallelize loops
transparently with
OpenMP
Want to learn the

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Python language without slogging your way through how-to manuals? With Head First Python, you'll quickly grasp Python's fundamentals, working with the built-in data structures and functions. Then

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you'll move on to building your very own webapp, exploring database management, exception handling, and data wrangling. If you're intrigued by what you can do with context managers, decorators, comprehensions,

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and learning theory,
Head First
Python uses a
visually rich format
to engage your
mind, rather than a
text-heavy approach
that puts you to
sleep. Why waste
your time struggling
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is designed for the way your brain really works.

Presents case studies and instructions on how to solve data analysis problems using Python.

Provides information on building Web applications using Google App Engine.

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The Hands-On,
Example-Rich
Introduction to
Pandas Data
Analysis in Python
Today, analysts
must manage data
characterized by
extraordinary
variety, velocity, and
volume. Using the
open source
Pandas library, you

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can use Python to rapidly automate and perform virtually any data analysis task, no matter how large or complex. Pandas can help you ensure the veracity of your data, visualize it for effective decision-making, and reliably reproduce analyses

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across multiple datasets. Pandas for Everyone brings together practical knowledge and insight for solving real problems with Pandas, even if you're new to Python data analysis. Daniel Y. Chen introduces key concepts through

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simple but practical examples, incrementally building on them to solve more difficult, real-world problems. Chen gives you a jumpstart on using Pandas with a realistic dataset and covers combining datasets, handling missing data, and

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structuring datasets for easier analysis and visualization. He demonstrates powerful data cleaning techniques, from basic string manipulation to applying functions simultaneously across dataframes. Once your data is ready, Chen guides

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you through fitting models for prediction, clustering, inference, and exploration. He provides tips on performance and scalability, and introduces you to the wider Python data analysis ecosystem. Work

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with DataFrames
and Series, and
import or export
data Create plots
with matplotlib,
seaborn, and
pandas Combine
datasets and handle
missing data
Reshape, tidy, and
clean datasets so
they're easier to
work with Convert

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data types and
manipulate text
strings Apply
functions to scale
data manipulations
Aggregate,
transform, and filter
large datasets with
groupby Leverage
Pandas' advanced
date and time
capabilities Fit linear
models using

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statsmodels and
scikit-learn libraries
Use generalized
linear modeling to fit
models with
different response
variables Compare
multiple models to
select the "best"
Regularize to
overcome overfitting
and improve
performance Use

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clustering in
unsupervised
machine learning
Become a Python
programmer and
have fun doing it!
Start writing
software that solves
real problems, even
if you have
absolutely no
programming
experience! This

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friendly, easy, full-color book puts you in total control of your own learning, empowering you to build unique and useful programs.

Microsoft has completely reinvented the beginning programmer's tutorial, reflecting

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deep research into how today's beginners learn, and why other books fall short. *Begin to Code with Python* is packed with innovations, from its "Snaps" prebuilt operations to its "Make Something Happen" projects. Whether you're a

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total beginner or you've tried before, this guide will put the power, excitement, and fun of programming where it belongs: in your hands! Easy, friendly, and you're in control! Learn how to

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- install,
- and use powerful free tools to create

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modern Python
programs Learn key
concepts from 170
sample programs,
and use them to
jumpstart your own
Discover exactly
what happens when
a program runs
Approach program
development with a
professional
perspective Learn

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the core elements of
the Python
language Build
more complex
software with
classes, methods,
and objects
Organize programs
so they're easy to
build and improve
Capture and
respond to user
input Store and

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manipulate many
types of real-world
data Define custom
data types to solve
specific problems
Create interactive
games that are fun
to play Build modern
web and cloud-
based applications
Use pre-built
libraries to quickly
create powerful

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software Get code samples, including complete apps, at: <https://aka.ms/BeginToCodePython/downloads> About This Book For absolute beginners who've never written a line of code For anyone who's been frustrated with other beginning

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programming books
or courses For
people who've
started out with
other languages and
now want to learn
Python Works with
Windows PC, Apple
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Raspberry Pi
Includes mapping of
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objectives that are

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covered in this book, as well as an appendix with further explanation of some of the topics on the exam. Get a comprehensive, in-depth introduction to the core Python language with this hands-on book. Based on author

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Mark Lutz's 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 languages.

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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 common use today.

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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 process objects with Python

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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
modules Dive into

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classes: Python's
object-oriented
programming tool
for structuring code
Write large
programs with
Python's exception-
handling model and
development tools
Learn advanced
Python tools,
including
decorators,

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descriptors,
metaclasses, and
Unicode processing

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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 environment Organize and write code Fix and break code

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Basic

mathematics

Variables Strings

and text Interact

with users Work

with files Looping

and logic Data

structures using

lists and

dictionaries

Program design

Object-oriented

programming

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*Inheritance and
composition
Modules, classes,
and objects
Python packaging
Automated
testing Basic
game
development
Basic web
development It'll
be hard at first.
But soon, you'll*

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*just get it—and
that will feel
great! This course
will reward you
for every minute
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Soon, you'll know
one of the world's
most powerful,
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For Total
beginners with
zero
programming
experience Junior
developers who
know one or two
languages
Returning
professionals who
haven't written*

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code in years

Seasoned

professionals

looking for a fast,

simple, crash

course in Python

3

This book

'Introduction to

Computing and

Problem Solving

with Python' will

help every

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*student, teacher
and researcher to
understand the
computing basics
and advanced Python
Programming
language. The
Python
programming
topics include the
reserved keywords,
identifiers,
variables,*

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operators, data types and their operations, flowcontrol techniques which include decision making and looping, modules, files and exception handling techniques.

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like Python regular expressions, Database Programming and Object Oriented Programming concepts are also covered in detail. All chapters have worked out programs, illustrations, review and frequently asked

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interview

questions. The simple style of presentation makes this a friend for self-learners.

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book covers

*syllabus for more
than 35*

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Universities*

*and 45 Indian
universities like
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Kalam*

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University, Christ
University,
Savitribai Phule*

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Mahatma Gandhi
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Mumbai, AICTE,
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Technical
University of
Denmark etc.
Python for
Everyone, 3rd
Edition is an
introduction to
programming
designed to serve
a wide range of
student interests*

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and abilities, focused on the essentials, and on effective learning. It is suitable for a first course in programming for computer scientists, engineers, and students in other disciplines. This text requires no

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prior

programming

experience and

only a modest

amount of high

school algebra.

Objects are used

where

appropriate in

early chapters

and students

start designing

and implementing

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their own classes in Chapter 9. New to this edition are examples and exercises that focus on various aspects of data science.

Python for Everybody is designed to introduce students to

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*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

capability of a spr

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eadsheet. 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 the rest of your career

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without needing to purchase any software. This book uses the Python 3 language. The earlier Python 2 version of this book is titled "Python for Informatics: Exploring Information". There are

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and supporting
materials for the
book at [www.pyth
onlearn.com](http://www.pyth
onlearn.com). The
course materials
are available to
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your own Python
course.*

*Currently used at
many colleges,
universities, and
high schools, this
hands-on
introduction to
computer science
is ideal for people*

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with little or no programming experience. The goal of this concise book is not just to teach you Java, but to help you think like a computer scientist. You'll learn how to program—a useful skill by

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itself—but you'll also discover how to use programming as a means to an end. Authors Allen Downey and Chris Mayfield start with the most basic concepts and gradually move into topics that

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are more complex, such as recursion and object-oriented programming. Each brief chapter covers the material for one week of a college course and includes exercises to help you practice what

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you've learned.

*Learn one
concept at a time:
tackle complex
topics in a series
of small steps
with examples
Understand how
to formulate
problems, think
creatively about
solutions, and
write programs*

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*clearly and
accurately*

*Determine which
development
techniques work
best for you, and
practice the
important skill of
debugging Learn
relationships
among input and
output, decisions
and loops, classes*

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*and methods,
strings and arrays
Work on
exercises
involving word
games, graphics,
puzzles, and
playing cards
Much has
changed in
technology over
the past decade.
Data is hot, the*

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cloud is ubiquitous, and many organizations need some form of automation. Throughout these transformations, Python has become one of the most popular languages in the world. This

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shows you how to
use Python for
everyday Linux
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administration
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most useful
DevOps tools,
including Docker,
Kubernetes, and
Terraform.
Learning how to*

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*interact and
automate with
Linux is essential
for millions of
professionals.
Python makes it
much easier. With
this book, you'll
learn how to
develop software
and solve
problems using
containers, as*

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*well as how to
monitor,
instrument, load-
test, and
operationalize
your software.
Looking for
effective ways to
"get stuff done"
in Python? This is
your guide.*

*Python
foundations,*

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*including a brief
introduction to
the language How
to automate text,
write command-
line tools, and
automate the
filesystem Linux
utilities, package
management,
build systems,
monitoring and
instrumentation,*

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*and automated
testing Cloud
computing,
infrastructure as
code, Kubernetes,
and serverless
Machine learning
operations and
data engineering
from a DevOps
perspective
Building,
deploying, and*

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*operationalizing a
machine learning
project*

*A collection of
progressively
more complex
Python*

*programming
challenges to
help students
learn to code in a
naturally
engaging way.*

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*Summary Think
Like a Data
Scientist presents
a step-by-step
approach to data
science,
combining
analytic,
programming,
and business
perspectives into
easy-to-digest
techniques and*

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thought

*processes for
solving real world
data-centric
problems.*

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*About the
Technology Data
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customers,
scientific
measurements,
IoT sensors, and
so on is valuable
only if you
understand it.
Data scientists
revel in the
interesting and*

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*rewarding
challenge of
observing,
exploring,
analyzing, and
interpreting this
data. Getting
started with data
science means
more than
mastering
analytic tools and
techniques,*

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however, the real magic happens when you begin to think like a data scientist.

This book will get you there. About the Book Think

Like a Data

Scientist teaches

you a step-by-

step approach to

solving real-world

Where To Download Python For Everybody

*data-centric
problems. By
breaking down
carefully crafted
examples, you'll
learn to combine
analytic,
programming,
and business
perspectives into
a repeatable
process for
extracting real*

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*knowledge from
data. As you
read, you'll
discover (or
remember)
valuable
statistical
techniques and
explore powerful
data science
software. More
importantly, you'll
put this*

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knowledge

*together using a
structured*

*process for data
science. When*

*you've finished,
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*strong foundation
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*About the Author
Brian Godsey has
worked in*

*software,
academia,*

finance, and

defense and has

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