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Chapter 2 Presentation and
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Contribute to modzy/modzy-jupyter-notebook-samples development by creating an account on GitHub.

Contributing to Modzy's Python SDK
Savin Goyal shares lessons learned by Netflix building their ML

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infrastructure, and some of the tradeoffs to consider when designing or buying a machine learning system.

Designing Better ML Systems:
Learnings from Netflix

So be sure to double-check the Cloud SDK documentation to ensure the appropriate version of Python is installed. Make a Translation API Request with a REST call using the v2 translate method.

Here ' s how developers can implement the Google Translate API in their apps

The Artificial Intelligence (AI) revolution is silently brewing in the way we think about and write software. Popularly, the next wave of AI-driven software development is known as Software 2.0.

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Artificial Intelligence (AI): Driving the future of Software development
Understand the differences to decide which one to choose for your next deep learning project based on the use case.

Keras vs Tensorflow - Deep Learning Frameworks Battle Royale
Declaring and using global variables in Rust can be tricky. Learn about the pitfalls involved and the best solutions for solving them.

How to Idiomatically Use Global Variables in Rust
NumPy works well on its own, but you can also wrap NumPy code with Numba to accelerate the Python portions of it. Numba's documentation goes into detail about

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which NumPy features are supported

...

Speed up your Python with Numba
See the Python documentation for
other ways to get the results of
commands ... The only exceptions are
that you may use any code from the
standard Python 3 library, or from the
textbook code from ...

Assignment 3 ¶

With Solus seeming to go from
strength to strength along with a
recent big release, it was time to sit
down and have a chat with one of the
team about the Linux distribution.

A chat with Joshua Strobl of the Solus
Linux distribution

Some of the main disadvantages of R
are that it can be difficult to

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understand, can be slow if not used properly, it doesn't have sufficient documentation, and it's slower than Python ...

Python or R: Which to choose for your next data project

They perform satisfactorily and continue to meet the functional requirements around which ... often without proper documentation of features or functional relationships," Jones said.

These old programming languages are still critical to big companies. But nobody wants to learn them

As with the first assignment, do not use any modules or code except from the standard Python 3 library, or from the textbook code from Github. The problem is to find the smallest

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number of teams that ...

Assignment 2 ¶

Even so, along the way you ' ll learn a little bit about Python and Docker ...

Writing SQL is nobody ' s idea of fun, but it ' s standard. Grafana is an analytics platform that lets you visualize ...

Howto: Docker, Databases, And Dashboards To Deal With Your Data

No previous programming experience in Python or any other programming language ...

requirements elicitation, requirements communication, requirements analysis and documentation, solution assessment

...

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The new SDKs can be found on PYPI for Python developers ... FIDO by way of its industry support has become a de facto standard for strong authentication, with wide acceptance in the technology ...

LoginID Continues Deployment of Simple APIs for Integrating FIDO-certified strong authentication
You can, however, use the app itself in a split mode with the code editor on the left and the console/documentation on the right ... it ' s now possible to take a look at the pure Python code of the ...

Pythonista 2.0 Brings Action Extension, iPad Pro Support, Code Editor Improvements, and More
There ' s Python code that knows how to drive the ... Pi with some

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device tree modifications explained in the code 's documentation. [Alain] made a nice breakout board for the device.

Minimal TinyAVR 0 Programming
ActiveState automates builds of custom Python and Perl runtimes for Windows
ActiveState is enhancing its SaaS offering to automate builds of custom Python and Perl runtimes for Windows.

SD Times news digest: Postman supports GraphQL, Compuware expands CI/CD, and ActiveState automates Python and Perl runtimes for Windows

JeVois is programmable using standard Linux-based development tools ... it provides a Linux-based programming environment (C++ or

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Python) that facilitates writing your own machine vision pipelines ...

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book.

Master the Powerful Python 3 Standard Library through Real Code Examples “ The genius of Doug ’ s approach is that with 15 minutes per week, any motivated programmer can learn the Python Standard Library. Doug ’ s guided tour will help you flip the switch to fully power-up Python ’ s batteries. ” –Raymond Hettinger, Distinguished Python Core Developer The Python 3 Standard Library contains hundreds of modules

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for interacting with the operating system, interpreter, and Internet—all extensively tested and ready to jump-start application development. Now, Python expert Doug Hellmann introduces every major area of the Python 3.x library through concise source code and output examples. Hellmann's examples fully demonstrate each feature and are designed for easy learning and reuse. You'll find practical code for working with text, data structures, algorithms, dates/times, math, the file system, persistence, data exchange, compression, archiving, crypto, processes/threads, networking, Internet capabilities, email, developer and language tools, the runtime, packages, and more. Each section fully covers one module, with links to additional resources,

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making this book an ideal tutorial and reference. The Python 3 Standard Library by Example introduces Python 3.x 's new libraries, significant functionality changes, and new layout and naming conventions. Hellmann also provides expert porting guidance for moving code from 2.x Python standard library modules to their Python 3.x equivalents. Manipulate text with string, textwrap, re (regular expressions), and difflib Use data structures: enum, collections, array, heapq, queue, struct, copy, and more Implement algorithms elegantly and concisely with functools, itertools, and contextlib Handle dates/times and advanced mathematical tasks Archive and data compression Understand data exchange and persistence, including json, dbm, and

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sqlite Sign and verify messages
cryptographically Manage concurrent
operations with processes and
threads Test, debug, compile, profile,
language, import, and package tools
Control interaction at runtime with
interpreters or the environment

Portable, powerful, and a breeze to use, Python is ideal for both standalone programs and scripting applications. With this hands-on book, you can master the fundamentals of the core Python language quickly and efficiently, whether you're new to programming or just new to Python. Once you finish, you will know enough about the language to use it in any application domain you choose. Learning Python is based on material from author Mark Lutz's popular

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training courses, which he's taught over the past decade. Each chapter is a self-contained lesson that helps you thoroughly understand a key component of Python before you continue. Along with plenty of annotated examples, illustrations, and chapter summaries, every chapter also contains Brain Builder, a unique section with practical exercises and review quizzes that let you practice new skills and test your understanding as you go. This book covers:

- Types and Operations -- Python's major built-in object types in depth: numbers, lists, dictionaries, and more
- Statements and Syntax -- the code you type to create and process objects in Python, along with Python's general syntax model
- Functions -- Python's basic procedural tool for structuring and reusing code

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Modules -- packages of statements, functions, and other tools organized into larger components
Classes and OOP -- Python's optional object-oriented programming tool for structuring code for customization and reuse
Exceptions and Tools -- exception handling model and statements, plus a look at development tools for writing larger programs
Learning Python gives you a deep and complete understanding of the language that will help you comprehend any application-level examples of Python that you later encounter. If you're ready to discover what Google and YouTube see in Python, this book is the best way to get started.

Practical Python 3 for experienced developers: use the right idioms,

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techniques, and features to write great code * *Written from a completely 'Python 3' point of view: teaches best practices for making the most of today's newest version of Python. *Designed to help developers get productive fast... then learn how to write any program, use any library, create any library module. *Includes expert guidance on migrating Python 2 code to Python 3. Around the world, programmers appreciate Python for its simplicity, power, expressiveness, and the sheer pleasure of writing Python code. Python 3.1 is the newest and best version of the language yet: more convenient, more consistent, and easier to use. Mark Summerfield demonstrates how to write code that takes full advantage of the latest Python 3 features and idioms. Programming in Python 3, 2/e, brings

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together all the knowledge needed to write programs, use any library, and even create new library modules. The book teaches every aspect of the Python 3 language. It covers all the built-in functionality, as well as key components of Python's standard library. Structured so readers can write Python programs from chapter 1, each subsequent chapter provides further depth and broader coverage. Two new chapters have been added to this edition increasing the coverage to include parsing, debugging, testing, and profiling. Readers will master Python procedural and object-oriented techniques; creation of custom modules and packages; writing and reading files; multithreading; networking; database programming; GUIs; regular expressions; application

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debugging, testing, and profiling; and more. Detailed appendices include coverage of migrating applications from Python 2 to Python 3, plus a complete language reference. All sample code has been tested with the final version of Python 3 on Windows, Linux, and Mac OS X.

Named after the Monty Python comedy troupe, Python is an interpreted, open-source, object-oriented programming language. It's also free and runs portably on Windows, Mac OS, Unix, and other operating systems. Python can be used for all manner of programming tasks, from CGI scripts to full-fledged applications. It is gaining popularity among programmers in part because it is easier to read (and hence, debug) than most other programming

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languages, and it's generally simpler to install, learn, and use. Its line structure forces consistent indentation. Its syntax and semantics make it suitable for simple scripts and large programs. Its flexible data structures and dynamic typing allow you to get a lot done in a few lines. To learn it, you'll need is some basic programming experience and a copy of Python: Visual QuickStart Guide. In patented Visual QuickStart Guide fashion, the book doesn't just tell you how to use Python to develop applications, it shows you, breaking Python into easy-to-digest, step-by-step tasks and providing example code. Python: Visual QuickStart Guide emphasizes the core language and libraries, which are the building blocks for programs. Author Chris Fehily starts with the basics -

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expressions, statements, numbers, strings - then moves on to lists, dictionaries, functions, and modules before wrapping things up with straightforward discussions of exceptions and classes. Some additional topics covered include: - Object-oriented programming- Working in multiple operating systems- Structuring large programs- Comparing Python to C, Perl, and Java- Handling errors gracefully.

This invaluable resource offers tutorials and real-world examples as well as thorough language references for Web markup languages (HTML/XHTML and CSS), and popular scripting languages (JavaScript, Perl, and PHP) Examines the role of JavaScript, CGI (with examples in Perl and Python), and PHP on the Web

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and shows how to best use them all
Includes a valuable reference section
on each technology that can be used
for review and consultation

Gain a fundamental understanding of Python's syntax and features with the second edition of *Beginning Python*, an up-to-date introduction and practical reference. Covering a wide array of Python-related programming topics, including addressing language internals, database integration, network programming, and web services, you'll be guided by sound development principles. Ten accompanying projects will ensure you can get your hands dirty in no time. Updated to reflect the latest in Python programming paradigms and several of the most crucial features

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found in Python 3.0 (otherwise known as Python 3000), advanced topics, such as extending Python and packaging/distributing Python applications, are also covered.

More than just a Python guide for beginners, The Python Workshop takes you through the full spectrum of basic to advanced topics, equipping you with the skills you need to get started with data science and more. Filled with practical step-by-step examples and interactive exercises, you'll learn by doing as you grow your new Python skillset.

Python Essentials provides a vital tour of the most critical features of Python. Starting with setup and installation, you will soon dive into exploring built-in-library types, Python's rich

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collection of operators and built-in functions, variables, assignment and scoping rules. From this foundation, you will explore functions, a crucial aspect of any programming language, including considerable sophistication in defining parameters to a function and providing argument values. Explore advanced functional programming using generator expressions, comprehensions, and generator functions. Handle file input and output using web services and context managers, exception handling and explore wider, popular frameworks. Through this concise and practical guide, you will explore all you need to know to leverage this powerful, and industry-standard, programming language.

Master the art of writing beautiful

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and powerful Python by using all of the features that Python 3.5 offers

About This Book Become familiar with the most important and advanced parts of the Python code style Learn the trickier aspects of Python and put it in a structured context for deeper understanding of the language Offers an expert's-eye overview of how these advanced tasks fit together in Python as a whole along with practical examples Who This Book Is For Almost anyone can learn to write working script and create high quality code but they might lack a structured understanding of what it means to be 'Pythonic'. If you are a Python programmer who wants to code efficiently by getting the syntax and usage of a few intricate Python techniques exactly right, this book is for you. What You Will Learn Create a

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virtualenv and start a new project
Understand how and when to use the
functional programming paradigm
Get familiar with the different ways
the decorators can be written in
Understand the power of generators
and coroutines without digressing
into lambda calculus Create
metaclasses and how it makes
working with Python far easier
Generate HTML documentation out of
documents and code using Sphinx
Learn how to track and optimize
application performance, both
memory and cpu Use the
multiprocessing library, not just
locally but also across multiple
machines Get a basic understanding
of packaging and creating your own
libraries/applications In Detail Python
is a dynamic programming language.
It is known for its high readability and

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hence it is often the first language learned by new programmers. Python being multi-paradigm, it can be used to achieve the same thing in different ways and it is compatible across different platforms. Even if you find writing Python code easy, writing code that is efficient, easy to maintain, and reuse is not so straightforward. This book is an authoritative guide that will help you learn new advanced methods in a clear and contextualised way. It starts off by creating a project-specific environment using venv, introducing you to different Pythonic syntax and common pitfalls before moving on to cover the functional features in Python. It covers how to create different decorators, generators, and metaclasses. It also introduces you to functools.wraps and coroutines and

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how they work. Later on you will learn to use asyncio module for asynchronous clients and servers. You will also get familiar with different testing systems such as py.test, doctest, and unittest, and debugging tools such as Python debugger and faulthandler. You will learn to optimize application performance so that it works efficiently across multiple machines and Python versions. Finally, it will teach you how to access C functions with a simple Python call. By the end of the book, you will be able to write more advanced scripts and take on bigger challenges.

Style and Approach This book is a comprehensive guide that covers advanced features of the Python language, and communicate them with an authoritative understanding of the underlying

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rationale for how, when, and why to use them.

The Hitchhiker's Guide to Python takes the journeyman Pythonista to true expertise. More than any other language, Python was created with the philosophy of simplicity and parsimony. Now 25 years old, Python has become the primary or secondary language (after SQL) for many business users. With popularity comes diversity—and possibly dilution. This guide, collaboratively written by over a hundred members of the Python community, describes best practices currently used by package and application developers. Unlike other books for this audience, The Hitchhiker ' s Guide is light on reusable code and heavier on design philosophy, directing the reader to

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excellent sources that already exist.

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