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Practical Python

Practical Python Programming  
(course by @dabeaz)

Practical Python Programming

A course by @dabeaz Welcome!

When I first learned Python nearly 25 years ago, I was immediately struck by how I could productively apply it to all sorts of messy work projects. Fast-forward a decade and I found myself teaching others the same fun.

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Welcome! | practical-python

The goal of this course is

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to cover foundational aspects of Python programming with an emphasis on script writing, data manipulation, and program organization. By the end of this course, students should be able to start writing useful Python programs on their own or be able to understand and modify Python code written by their coworkers.

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programming language and backed by major tech companies such as Google. It is among the top three languages in use today and it is easy to see why many universities are adopting Python as a primary language on computer science courses.

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Practical Python | iSteam  
NxG

This chapter will get you up and running with Python, from downloading it to writing simple programs. 1.1 Installing Python Go to [www.python.org](http://www.python.org) and download the latest version of Python (version 3.5 as of this writing). It should be

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painless to install. If you have a Mac or Linux, you may already have Python on your

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A Practical Introduction to  
Python Programming

Welcome to Practice Python!  
There are over 30 beginner  
Python exercises just  
waiting to be solved. Each  
exercise comes with a small  
discussion of a topic and a  
link to a solution. New  
exercise are posted monthly,  
so check back often, or  
follow on Feedly, Twitter,  
or your favorite RSS reader.

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In the first mode where you

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type data at the prompt, Python shows you the raw string representation including quotes and escape codes. When you type `print (data)`, you get the actual formatted output of the string.

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anniversary. Last year, I reflected on 5 years...

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An excellent reference for how to secure your Python systems. Richard Vaughan No-nonsense techniques, libraries, and best practices you can use to keep your Python applications safe and secure. Practical Python Security teaches you everything you'll need to build secure Python web applications. As you work through the insightful code snippets and engaging examples, you'll put

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concepts like cryptography, authentication, content security policies, and more into action.

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impressive feats of  
automation to: Search for  
text in a file or across  
multiple files Create,  
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with Python  
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Python Projects Book  
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major reason for writing this book is that only a handful of project-based books existed in 2018. Book Content. This book contains something for programmers of all skill levels. If you know how to use different Python... ..

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Alpha Version of Practical Python Projects Book Released ...

You'll learn about data manipulation using Python's built-in datatypes, organizing code into functions, creating new objects with classes, and writing larger programs consisting of modules.

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Practical advice concerning coding practice, error handling, testing, and debugging are also prominent topics.

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Practical Python Programming  
– Dabeaz

Discover the art and science of solving artificial intelligence problems with Python using optimization modeling. This book covers the practical creation and analysis of mathematical algebraic models such as linear continuous models, non-obviously linear continuous models, and pure linear integer models.

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Practical Python AI  
Projects: Mathematical  
Models of ...  
Practical Python for  
Astronomers is a series of  
hands-on workshops to  
explore the Python language  
and the powerful analysis  
tools it provides. The  
emphasis is on using Python  
to solve real-world problems  
that astronomers are likely  
to encounter in research.

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Practical Python for  
Astronomers –  
Python4Astronomers 2.0 ...  
This Python Online Test  
simulates a real online  
certification exams. You

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will be presented Multiple Choice Questions (MCQs) based on Python Concepts, where you will be given four options. You will select the best suitable answer for the question and then proceed to the next question without wasting given time.

Start work on your website, app, search engine, or whatever programming project you have today with this practical Python guide, and claim your Free Bonus Chapter on Multi-Threaded Programming! Become an expert in Python today with this easy to follow guide

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that now includes pictures and examples to make learning more fluid! Are you aware that websites like Instagram, Spotify, and Pinterest use Python Programming in to make their sites? Will you create the next Instagram with your newfound expertise in Python? Python Programming is a widely used language that anyone can use and get good with, and also a super concise language that you can create nearly anything with. Mac, Linux, UNIX, and others have Python installed as a default setting since it is an open source and free language. After you read this book, you will

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fluent in this versatile code language and see it applied to a variety of examples now with pictures! As stated, you can use the language to create everything you want; a website, make a game, or even create a search engine. The big plus of using Python is, an explicit compiler is not necessary since it's an entirely interpreted language like Perl, Shell, and others.

Learn about:

- An Introduction to Python
- Installing Python and Setting up the Environment
- Common Python Syntax
- Types of Variables in Python
- Using Operators and Operands
- Using Sequential

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Loops Decision Making and  
Expressions Strings and  
Functions in Python Creating,  
Using, and Modifying  
Lists Tuples and Data  
Types Dictionary Operation  
and Functions Mastering Date  
and Time User Defined  
Functions Organizing Code  
With Modules I/O Input Used  
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Stuff with Python, you'll learn how to use Python to write programs that do in minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically

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updating CSV files. You'll learn how to create programs that effortlessly perform useful feats of automation to:

- Search 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 Excel spreadsheets of any size
- Split, merge, watermark, and encrypt PDFs
- Send email responses and text notifications
- Fill out online forms

Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve

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those programs and use your newfound skills to 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 work. Learn how in *Automate the Boring Stuff with Python, 2nd Edition*.

The author focuses on mainstream, useful and usable instruction in a popular, open source scripting language.

Become a better, more productive programmer through a series of projects that will help you deeply

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understand and master each of the design patterns covered. In this book you will learn to write elegant "Pythonic" code to solve common programming problems. You will also experience design thinking, by identifying design patterns that would be helpful given a specific problem or situation. Python is eating the world. In recent years it has become so much more than a mere object-oriented, scripting language. Design patterns help you think of and solve problems in chunks. They help you to stand on the shoulders of the giants who have come before, instead of having to

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reinvent the wheel. What You Will Learn Craft cleaner code Increase your effectiveness as a programmer Write more Pythonic code Solve bigger problems Discover optimal solutions to common problems, done in a way that is uniquely Pythonic Who This Book Is For Programmers who are comfortable with Python. It is also guide for people who have mastered other programming languages and who want to make the transition to Python.

Quickly start programming with Python 3 for data visualization with this step-by-step, detailed guide.

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This book's programming-friendly approach using libraries such as leather, NumPy, Matplotlib, and Pandas will serve as a template for business and scientific visualizations. You'll begin by installing Python 3, see how to work in Jupyter notebook, and explore Leather, Python's popular data visualization charting library. You'll also be introduced to the scientific Python 3 ecosystem and work with the basics of NumPy, an integral part of that ecosystem. Later chapters are focused on various NumPy routines along with getting started with Scientific Data

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visualization using matplotlib. You'll review the visualization of 3D data using graphs and networks and finish up by looking at data visualization with Pandas, including the visualization of COVID-19 data sets. The code examples are tested on popular platforms like Ubuntu, Windows, and Raspberry Pi OS. With Practical Python Data Visualization you'll master the core concepts of data visualization with Pandas and the Jupyter notebook interface. What You'll Learn Review practical aspects of Python Data Visualization with programming-friendly

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abstractions Install Python 3 and Jupyter on multiple platforms including Windows, Raspberry Pi, and Ubuntu Visualize COVID-19 data sets with Pandas Who This Book Is For Data Science enthusiasts and professionals, Business analysts and managers, software engineers, data engineers.

Become a better, more productive programmer through a series of projects that will help you deeply understand and master each of the design patterns covered. In this book you will learn to write elegant "Pythonic" code to solve common programming problems.

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You will also experience design thinking, by identifying design patterns that would be helpful given a specific problem or situation. Python is eating the world. In recent years it has become so much more than a mere object-oriented, scripting language. Design patterns help you think of and solve problems in chunks. They help you to stand on the shoulders of the giants who have come before, instead of having to reinvent the wheel. What You'll Learn ● Craft cleaner code ● Increase your effectiveness as a programmer ● Write more "Pythonic" code ● Solve

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bigger problems● Discover optimal solutions to common problems, done in a way that is uniquely "Pythonic." Who This Book Is For Programmers who are comfortable with Python. It is also guide for people who have mastered other programming languages and who want to make the transition to Python.

Discover the art and science of solving artificial intelligence problems with Python using optimization modeling. This book covers the practical creation and analysis of mathematical algebraic models such as linear continuous models, non-obviously linear

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continuous models, and pure linear integer models. Rather than focus on theory, Practical Python AI Projects, the product of the author's decades of industry teaching and consulting, stresses the model creation aspect; contrasting alternate approaches and practical variations. Each model is explained thoroughly and written to be executed. The source code from all examples in the book is available, written in Python using Google OR-Tools. It also includes a random problem generator, useful for industry application or study. What You Will Learn Build basic

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Python-based artificial intelligence (AI) applications Work with mathematical optimization methods and the Google OR-Tools (Optimization Tools) suite Create several types of projects using Python and Google OR-Tools Who This Book Is For Developers and students who already have prior experience in Python coding. Some prior mathematical experience or comfort level may be helpful as well.

Leverage Python and Raspberry Pi to create complex IoT applications capable of creating and detecting movement and

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measuring distance, light, and a host of other environmental conditions Key Features Learn the fundamentals of electronics and how to integrate them with a Raspberry Pi Understand how to build RESTful APIs, WebSocket APIs, and MQTT-based applications Explore alternative approaches to structuring IoT applications with Python Book Description The age of connected devices is here, be it fitness bands or smart homes. It's now more important than ever to understand how hardware components interact with the internet to collect and analyze user data. The

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Internet of Things (IoT), combined with the popular open source language Python, can be used to build powerful and intelligent IoT systems with intuitive interfaces. This book consists of three parts, with the first focusing on the "Internet" component of IoT. You'll get to grips with end-to-end IoT app development to control an LED over the internet, before learning how to build RESTful APIs, WebSocket APIs, and MQTT services in Python. The second part delves into the fundamentals behind electronics and GPIO interfacing. As you progress to the last part, you'll

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focus on the "Things" aspect of IoT, where you will learn how to connect and control a range of electronic sensors and actuators using Python. You'll also explore a variety of topics, such as motor control, ultrasonic sensors, and temperature measurement. Finally, you'll get up to speed with advanced IoT programming techniques in Python, integrate with IoT visualization and automation platforms, and build a comprehensive IoT project. By the end of this book, you'll be well-versed with IoT development and have the knowledge you need to build sophisticated IoT systems

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using Python. What you will learn Understand electronic interfacing with Raspberry Pi from scratch Gain knowledge of building sensor and actuator electronic circuits Structure your code in Python using Async IO, pub/sub models, and more Automate real-world IoT projects using sensor and actuator integration Integrate electronics with ThingSpeak and IFTTT to enable automation Build and use RESTful APIs, WebSockets, and MQTT with sensors and actuators Set up a Raspberry Pi and Python development environment for IoT projects Who this book is for This IoT Python book

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is for application developers, IoT professionals, or anyone interested in building IoT applications using the Python programming language. It will also be particularly helpful for mid to senior-level software engineers who are experienced in desktop, web, and mobile development, but have little to no experience of electronics, physical computing, and IoT.

As telescopes, detectors, and computers grow ever more powerful, the volume of data at the disposal of astronomers and astrophysicists will enter the petabyte domain,

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providing accurate measurements for billions of celestial objects. This book provides a comprehensive and accessible introduction to the cutting-edge statistical methods needed to efficiently analyze complex data sets from astronomical surveys such as the Panoramic Survey Telescope and Rapid Response System, the Dark Energy Survey, and the upcoming Large Synoptic Survey Telescope. It serves as a practical handbook for graduate students and advanced undergraduates in physics and astronomy, and as an indispensable reference for researchers. Statistics, Data Mining, and

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Machine Learning in Astronomy presents a wealth of practical analysis problems, evaluates techniques for solving them, and explains how to use various approaches for different types and sizes of data sets. For all applications described in the book, Python code and example data sets are provided. The supporting data sets have been carefully selected from contemporary astronomical surveys (for example, the Sloan Digital Sky Survey) and are easy to download and use. The accompanying Python code is publicly available, well documented, and follows

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uniform coding standards. Together, the data sets and code enable readers to reproduce all the figures and examples, evaluate the methods, and adapt them to their own fields of interest. Describes the most useful statistical and data-mining methods for extracting knowledge from huge and complex astronomical data sets Features real-world data sets from contemporary astronomical surveys Uses a freely available Python codebase throughout Ideal for students and working astronomers

Master the essential skills

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needed to recognize and solve complex problems with machine learning and deep learning. Using real-world examples that leverage the popular Python machine learning ecosystem, this book is your perfect companion for learning the art and science of machine learning to become a successful practitioner. The concepts, techniques, tools, frameworks, and methodologies used in this book will teach you how to think, design, build, and execute machine learning systems and projects successfully. Practical Machine Learning with Python follows a structured and

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comprehensive three-tiered approach packed with hands-on examples and code. Part 1 focuses on understanding machine learning concepts and tools. This includes machine learning basics with a broad overview of algorithms, techniques, concepts and applications, followed by a tour of the entire Python machine learning ecosystem. Brief guides for useful machine learning tools, libraries and frameworks are also covered. Part 2 details standard machine learning pipelines, with an emphasis on data processing analysis, feature engineering, and modeling. You will learn how

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to process, wrangle, summarize and visualize data in its various forms. Feature engineering and selection methodologies will be covered in detail with real-world datasets followed by model building, tuning, interpretation and deployment. Part 3 explores multiple real-world case studies spanning diverse domains and industries like retail, transportation, movies, music, marketing, computer vision and finance. For each case study, you will learn the application of various machine learning techniques and methods. The hands-on examples will help you become familiar with

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state-of-the-art machine learning tools and techniques and understand what algorithms are best suited for any problem. Practical Machine Learning with Python will empower you to start solving your own problems with machine learning today! What You'll Learn Execute end-to-end machine learning projects and systems Implement hands-on examples with industry standard, open source, robust machine learning tools and frameworks Review case studies depicting applications of machine learning and deep learning on diverse domains and industries Apply a wide

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range of machine learning models including regression, classification, and clustering. Understand and apply the latest models and methodologies from deep learning including CNNs, RNNs, LSTMs and transfer learning. Who This Book Is For IT professionals, analysts, developers, data scientists, engineers, graduate students

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