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Abstract. The present chapter provides an overview of functionality frequently needed in Python scripts, including file reading and writing, list and dictionary operations, simple text processing, writing and calling Python functions, checking a file's type, size, and age, listing and removing files, creating and removing directories, and traversing directory trees.

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In a sense, the overview is a kind of quick reference with embedded examples containing useful code segments in Python scripts. A corresponding overview of more advanced Python functionality is provided in Chapter 8.

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(2006) Basic Python. In: Python Scripting for Computational Science. Texts in Computational Science and Engineering, vol 3. Springer, Berlin, Heidelberg.

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Based on the latest version of the language, this book offers a self-contained, concise and coherent introduction to programming with Python. The book's primary focus is on realistic case study applications of Python.

Programming with Python | T R Padmanabhan | Springer

This first chapter introduces Python to readers that have never programmed in Python before. It also provides instructions for installing Python on your computer. The Wing Integrated Development Environment (IDE) is recommended for students learning to program. Wing IDE 101 is the free version of the IDE for educational use.

Python Programming 101 | SpringerLink

About this Textbook. 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 Langtangen), but the style is more accessible and concise, in keeping with the needs of engineering students.

Programming for Computations - Python - Springer

The second edition was based on Python version 2.3, while the third edition contains updates for version 2.5. Recent Python features, such as generator expressions (Chapter 8.9.4), Ctypes for interfacing shared libraries in C (Chapter 5.2.2), the with statement (Chapter 3.1.4), and the subprocess module for running external

processes (Chapter 3.1.3) have been exemplified to make the reader ...

Python Scripting for Computational Science - Springer

This textbook provides an introduction to the free software Python and its use for statistical data analysis. It covers common statistical tests for continuous, discrete and categorical data, as well as linear regression analysis and topics from survival analysis and Bayesian statistics. Working code and data for Python solutions for each test, together with easy-to-follow Python examples, can be reproduced by the reader and reinforce their immediate understanding of the topic.

An Introduction to Statistics with Python - Springer

Expand your basic knowledge of Python and use PyGame to create fast-paced video games with great graphics and sounds. This second edition shows how you can integrate electronic components with your games using the build-in general purpose input/output (GPIO) pins and some Python code to create two new games. You'll learn about object-oriented programming (OOP) as well as design patterns, such as model-view-controller (MVC) and finite-state machines (FSMs).

Python, PyGame, and Raspberry Pi Game Development - Springer

This textbook describes recent advances in genomics and bioinformatics and provides numerous examples of genome data analysis that illustrate its relevance to real world problems and will improve the reader's bioinformatics skills. Basic data preprocessing with normalization and filtering, primary pattern analysis, and machine learning algorithms using R and Python are demonstrated for gene-expression microarrays, genotyping microarrays, next-generation sequencing data, epigenomic data ...

Genome Data Analysis - Home - Springer

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 and download the latest version of Python (version 3.5 as of this writing). It should be painless to install. If you have a Mac or Linux, you may already have Python on your

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Please review prior to ordering. This textbook presents a wide range of tools for a course in mathematical optimization for upper undergraduate and graduate students in mathematics, engineering, computer science, and other applied sciences. Basic optimization principles are presented with emphasis on gradient-based numerical optimization strategies and algorithms for solving both smooth and noisy discontinuous optimization problems.

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Complete Python Guide with example is a book for those people who are scared of Python's long and complicated code. This popular book covers complex concepts of Python and examines it in simple steps. This e-book teaches you basic Python coding fundamentals like classes, objects, tuples, strings, etc.

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Learn how to use Python and its structures, how to install Python, and which tools are best suited for data analyst work. This book provides you with a handy reference and tutorial on topics ranging from basic Python concepts through to data mining, manipulating and importing datasets, and data analysis.

Python for Data Mining Quick Syntax Reference | Springer ...

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