

Claus Führer Jan Erik Solem Olivier Verdier

COMPUTING WITH PYTHON

An introduction to Python for science and engineering

Computing With Python An Introduction To Python For Science And Engineering

David E. Clough, Steven C. Chapra



Computing With Python An Introduction To Python For Science And Engineering:

Computing with Python Claus Führer, Jan Erik Solem, Olivier Verdier, 2013-12-18 Python is a free open source language and environment that has tremendous potential in the scientific computing domain Computing with Python presents the programming language in tight connection with mathematical applications The approach of the book is concept based rather than a systematic introduction to the language It is written for a mathematical readership and is aimed at students with a mathematical background

Introduction to Python for Science and Engineering David J. Pine, 2019-03-15 Series in Computational Physics Steven A Gottlieb and Rubin H Landau Series Editors Introduction to Python for Science and Engineering This guide offers a quick and incisive introduction to Python programming for anyone The author has carefully developed a concise approach to using Python in any discipline of science and engineering with plenty of examples practical hints and insider tips Readers will see why Python is such a widely appealing program and learn the basics of syntax data structures input and output plotting conditionals and loops user defined functions curve fitting numerical routines animation and visualization The author teaches by example and assumes no programming background for the reader David J Pine is the Silver Professor and Professor of Physics at New York University and Chair of the Department of Chemical and Biomolecular Engineering at the NYU Tandon School of Engineering He is an elected fellow of the American Physical Society and American Association for the Advancement of Science AAAS and is a Guggenheim Fellow

An Introduction to Python Programming for Scientists and Engineers Johnny Wei-Bing Lin, Hannah Aizenman, Erin Manette Cartas Espinel, Kim Gunnerson, Joanne Liu, 2022-07-07 Textbook that uses examples and Jupyter notebooks from across the sciences and engineering to teach Python programming

A Primer on Scientific Programming with Python Hans Petter Langtangen, 2014-08-01 The book serves as a first introduction to computer programming of scientific applications using the high level Python language The exposition is example and problem oriented where the applications are taken from mathematics numerical calculus statistics physics biology and finance The book teaches Matlab style and procedural programming as well as object oriented programming High school mathematics is a required background and it is advantageous to study classical and numerical one variable calculus in parallel with reading this book Besides learning how to program computers the reader will also learn how to solve mathematical problems arising in various branches of science and engineering with the aid of numerical methods and programming By blending programming mathematics and scientific applications the book lays a solid foundation for practicing computational science From the reviews Langtangen does an excellent job of introducing programming as a set of skills in problem solving He guides the reader into thinking properly about producing program logic and data structures for modeling real world problems using objects and functions and embracing the object oriented paradigm Summing Up Highly recommended F H Wild III Choice Vol 47 8 April 2010 Those of us who have learned scientific programming in Python on the streets could be a little jealous of students who have the

opportunity to take a course out of Langtangen's Primer John D Cook The Mathematical Association of America September 2011 This book goes through Python in particular and programming in general via tasks that scientists will likely perform It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science Alex Small IEEE CiSE Vol 14 2 March April 2012 *Introduction to Python for Engineers and Scientists* Sandeep Nagar, 2017-12-06 Familiarize yourself with the basics of Python for engineering and scientific computations using this concise practical tutorial that is focused on writing code to learn concepts Introduction to Python is useful for industry engineers researchers and students who are looking for open source solutions for numerical computation In this book you will learn by doing avoiding technical jargon which makes the concepts easy to learn First you'll see how to run basic calculations absorbing technical complexities incrementally as you progress toward advanced topics Throughout the language is kept simple to ensure that readers at all levels can grasp the concepts What You'll Learn Understand the fundamentals of the Python programming language Apply Python to numerical computational programming projects in engineering and science Discover the Pythonic way of life Apply data types operators and arrays Carry out plotting for visualization Work with functions and loops Who This Book Is For Engineers scientists researchers and students who are new to Python Some prior programming experience would be helpful but not required **Introduction to Engineering and Scientific Computing with Python** David E. Clough, Steven C. Chapra, 2022-09-07 As more and more engineering departments and companies choose to use Python this book provides an essential introduction to this open source free to use language Expressly designed to support first year engineering students this book covers engineering and scientific calculations Python basics and structured programming Based on extensive teaching experience the text uses practical problem solving as a vehicle to teach Python as a programming language By learning computing fundamentals in an engaging and hands on manner it enables the reader to apply engineering and scientific methods with Python focusing this general language to the needs of engineers and the problems they are required to solve on a daily basis Rather than inundating students with complex terminology this book is designed with a leveling approach in mind enabling students at all levels to gain experience and understanding of Python It covers such topics as structured programming graphics matrix operations algebraic equations differential equations and applied statistics A comprehensive chapter on working with data brings this book to a close This book is an essential guide to Python which will be relevant to all engineers particularly undergraduate students in their first year It will also be of interest to professionals and graduate students looking to hone their programming skills and apply Python to engineering and scientific contexts **IPython Interactive Computing and Visualization Cookbook** Cyrille Rossant, 2018-01-31 Learn to use IPython and Jupyter Notebook for your data analysis and visualization work Key Features Leverage the Jupyter Notebook for interactive data science and visualization Become an expert in high performance computing and visualization for data analysis and

scientific modeling A comprehensive coverage of scientific computing through many hands on example driven recipes with detailed step by step explanations Book Description Python is one of the leading open source platforms for data science and numerical computing IPython and the associated Jupyter Notebook offer efficient interfaces to Python for data analysis and interactive visualization and they constitute an ideal gateway to the platform IPython Interactive Computing and Visualization Cookbook Second Edition contains many ready to use focused recipes for high performance scientific computing and data analysis from the latest IPython Jupyter features to the most advanced tricks to help you write better and faster code You will apply these state of the art methods to various real world examples illustrating topics in applied mathematics scientific modeling and machine learning The first part of the book covers programming techniques code quality and reproducibility code optimization high performance computing through just in time compilation parallel computing and graphics card programming The second part tackles data science statistics machine learning signal and image processing dynamical systems and pure and applied mathematics What you will learn Master all features of the Jupyter Notebook Code better write high quality readable and well tested programs profile and optimize your code and conduct reproducible interactive computing experiments Visualize data and create interactive plots in the Jupyter Notebook Write blazingly fast Python programs with NumPy ctypes Numba Cython OpenMP GPU programming CUDA parallel IPython Dask and more Analyze data with Bayesian or frequentist statistics Pandas PyMC and R and learn from actual data through machine learning scikit learn Gain valuable insights into signals images and sounds with SciPy scikit image and OpenCV Simulate deterministic and stochastic dynamical systems in Python Familiarize yourself with math in Python using SymPy and Sage algebra analysis logic graphs geometry and probability theory Who this book is for This book is intended for anyone interested in numerical computing and data science students researchers teachers engineers analysts and hobbyists A basic knowledge of Python NumPy is recommended Some skills in mathematics will help you understand the theory behind the computational methods *An Introduction to Python and Computer Programming* Yue Zhang,2015-07-08 This book introduces Python programming language and fundamental concepts in algorithms and computing Its target audience includes students and engineers with little or no background in programming who need to master a practical programming language and learn the basic thinking in computer science programming The main contents come from lecture notes for engineering students from all disciplines and has received high ratings Its materials and ordering have been adjusted repeatedly according to classroom reception Compared to alternative textbooks in the market this book introduces the underlying Python implementation of number string list tuple dict function class instance and module objects in a consistent and easy to understand way making assignment function definition function call mutability and binding environments understandable inside out By giving the abstraction of implementation mechanisms this book builds a solid understanding of the Python programming language **An Introduction to Statistics with Python** Thomas Haslwanter,2022-11-15 Now in

its second edition this textbook provides an introduction to 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. For this new edition, the introductory chapters on Python data input and visualization have been reworked and updated. The chapter on experimental design has been expanded, and programs for the determination of confidence intervals commonly used in quality control have been introduced. The book also features a new chapter on finding patterns in data, including time series. A new appendix describes useful programming tools such as testing tools, code repositories, and GUIs. The provided working code for Python solutions, together with easy-to-follow examples, will reinforce the reader's immediate understanding of the topic. Accompanying data sets and Python programs are also available online. With recent advances in the Python ecosystem, Python has become a popular language for scientific computing, offering a powerful environment for statistical data analysis. With examples drawn mainly from the life and medical sciences, this book is intended primarily for masters and PhD students. As it provides the required statistics background, the book can also be used by anyone who wants to perform a statistical data analysis.

Proceedings of the 8th Python in Science Conference

Gaëll Varoquaux, Stefan van der Walt, K. Jarrod Millman, 2010-02-23. The proceedings of the 8th annual Python for Scientific Computing conference. [A Primer on Scientific Programming with Python](#) Hans Petter Langtangen, 2009-08-07

The aim of this book is to teach computer programming using examples from mathematics and the natural sciences. We have chosen to use the Python programming language because it combines remarkable power with very clean, simple, and compact syntax. Python is easy to learn and very well suited for an introduction to computer programming. Python is also quite similar to Matlab and a good language for doing mathematical computing. It is easy to combine Python with compiled languages like Fortran, C, and C++ which are widely used languages for scientific computations. A seamless integration of Python with Java is offered by a special version of Python called Jython. The examples in this book integrate programming with applications to mathematics, physics, biology, and finance. The reader is expected to have knowledge of basic one-variable calculus as taught in mathematics intensive programs in high schools. It is certainly an advantage to take a university calculus course in parallel, preferably containing both classical and numerical aspects of calculus. Although not strictly required, a background in high school physics makes many of the examples more meaningful.

Integrating Python with Leading Computer Forensics

Platforms Chet Hosmer, 2016-09-26. Integrating Python with Leading Computer Forensic Platforms takes a definitive look at how and why the integration of Python advances the field of digital forensics. In addition, the book includes practical, never-seen Python examples that can be immediately put to use. Noted author Chet Hosmer demonstrates how to extend four key Forensic Platforms using Python, including EnCase by Guidance Software, MPE by AccessData, The Open Source Autopsy, SleuthKit by Brian Carrier and WetStone Technologies, and Live Acquisition and Triage Tool (US LATT). This book is for practitioners, forensic investigators, educators, students, private investigators, or anyone advancing digital forensics.

investigating cybercrime Additionally the open source availability of the examples allows for sharing and growth within the industry This book is the first to provide details on how to directly integrate Python into key forensic platforms Provides hands on tools code samples detailed instruction and documentation that can be immediately put to use Shows how to integrate Python with popular digital forensic platforms including EnCase MPE The Open Source Autopsy SleuthKit and US LATT Presents complete coverage of how to use Open Source Python scripts to extend and modify popular digital forensic Platforms

Introduction to Python Programming Gowrishankar S,Veena A,2018-12-07 Introduction to Python Programming is written for students who are beginners in the field of computer programming This book presents an intuitive approach to the concepts of Python Programming for students This book differs from traditional texts not only in its philosophy but also in its overall focus level of activities development of topics and attention to programming details The contents of the book are chosen with utmost care after analyzing the syllabus for Python course prescribed by various top universities in USA Europe and Asia Since the prerequisite know how varies significantly from student to student the book s overall overture addresses the challenges of teaching and learning of students which is fine tuned by the authors experience with large sections of students This book uses natural language expressions instead of the traditional shortened words of the programming world This book has been written with the goal to provide students with a textbook that can be easily understood and to make a connection between what students are learning and how they may apply that knowledge Features of this book This book does not assume any previous programming experience although of course any exposure to other programming languages is useful This book introduces all of the key concepts of Python programming language with helpful illustrations Programming examples are presented in a clear and consistent manner Each line of code is numbered and explained in detail Use of f strings throughout the book Hundreds of real world examples are included and they come from fields such as entertainment sports music and environmental studies Students can periodically check their progress with in chapter quizzes that appear in all chapters

Trends and Innovations in Information Systems and Technologies Álvaro Rocha,Hojjat Adeli,Luís Paulo Reis,Sandra Costanzo,Irena Orovic,Fernando Moreira,2020-05-17 This book gathers selected papers presented at the 2020 World Conference on Information Systems and Technologies WorldCIST 20 held in Budva Montenegro from April 7 to 10 2020 WorldCIST provides a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences with and challenges regarding various aspects of modern information systems and technologies The main topics covered are A Information and Knowledge Management B Organizational Models and Information Systems C Software and Systems Modeling D Software Systems Architectures Applications and Tools E Multimedia Systems and Applications F Computer Networks Mobility and Pervasive Systems G Intelligent and Decision Support Systems H Big Data Analytics and Applications I Human Computer Interaction J Ethics Computers K Health Informatics L Information Technologies in Education M Information Technologies in

Radiocommunications and N Technologies for Biomedical Applications

Explorations in Computing John S.

Conery,2014-09-24 An Active Learning Approach to Teaching the Main Ideas in Computing Explorations in Computing An Introduction to Computer Science and Python Programming teaches computer science students how to use programming skills to explore fundamental concepts and computational approaches to solving problems Tbook gives beginning students an introduction to

Mastering Python Scientific Computing Hemant Kumar Mehta,2015-09-23 A complete guide for Python programmers to master scientific computing using Python APIs and tools About This Book The basics of scientific computing to advanced concepts involving parallel and large scale computation are all covered Most of the Python APIs and tools used in scientific computing are discussed in detail The concepts are discussed with suitable example programs Who This Book Is For If you are a Python programmer and want to get your hands on scientific computing this book is for you The book expects you to have had exposure to various concepts of Python programming What You Will Learn Fundamentals and components of scientific computing Scientific computing data management Performing numerical computing using NumPy and SciPy Concepts and programming for symbolic computing using SymPy Using the plotting library matplotlib for data visualization Data analysis and visualization using Pandas matplotlib and IPython Performing parallel and high performance computing Real life case studies and best practices of scientific computing In Detail In today s world along with theoretical and experimental work scientific computing has become an important part of scientific disciplines Numerical calculations simulations and computer modeling in this day and age form the vast majority of both experimental and theoretical papers In the scientific method replication and reproducibility are two important contributing factors A complete and concrete scientific result should be reproducible and replicable Python is suitable for scientific computing A large community of users plenty of help and documentation a large collection of scientific libraries and environments great performance and good support makes Python a great choice for scientific computing At present Python is among the top choices for developing scientific workflow and the book targets existing Python developers to master this domain using Python The main things to learn in the book are the concept of scientific workflow managing scientific workflow data and performing computation on this data using Python The book discusses NumPy SciPy SymPy matplotlib Pandas and IPython with several example programs Style and approach This book follows a hands on approach to explain the complex concepts related to scientific computing It details various APIs using appropriate examples

Open Source Software for Statistical Analysis of Big Data: Emerging Research and Opportunities Segall, Richard S.,Niu, Gao,2020-02-21 With the development of computing technologies in today s modernized world software packages have become easily accessible Open source software specifically is a popular method for solving certain issues in the field of computer science One key challenge is analyzing big data due to the high amounts that organizations are processing Researchers and professionals need research on the foundations of open source software programs and how they can successfully analyze statistical data Open Source Software for Statistical

Analysis of Big Data Emerging Research and Opportunities provides emerging research exploring the theoretical and practical aspects of cost free software possibilities for applications within data analysis and statistics with a specific focus on R and Python Featuring coverage on a broad range of topics such as cluster analysis time series forecasting and machine learning this book is ideally designed for researchers developers practitioners engineers academicians scholars and students who want to more fully understand in a brief and concise format the realm and technologies of open source software for big data and how it has been used to solve large scale research problems in a multitude of disciplines

Python Programming and Numerical Methods Qingkai Kong, Timmy Siau, Alexandre Bayen, 2020-11-27 Python Programming and Numerical Methods A Guide for Engineers and Scientists introduces programming tools and numerical methods to engineering and science students with the goal of helping the students to develop good computational problem solving techniques through the use of numerical methods and the Python programming language Part One introduces fundamental programming concepts using simple examples to put new concepts quickly into practice Part Two covers the fundamentals of algorithms and numerical analysis at a level that allows students to quickly apply results in practical settings Includes tips warnings and try this features within each chapter to help the reader develop good programming practice Summaries at the end of each chapter allow for quick access to important information Includes code in Jupyter notebook format that can be directly run online

Introduction to Scientific Programming with Python Joakim Sundnes, 2020-07-01 This open access book offers an initial introduction to programming for scientific and computational applications using the Python programming language The presentation style is compact and example based making it suitable for students and researchers with little or no prior experience in programming The book uses relevant examples from mathematics and the natural sciences to present programming as a practical toolbox that can quickly enable readers to write their own programs for data processing and mathematical modeling These tools include file reading plotting simple text analysis and using NumPy for numerical computations which are fundamental building blocks of all programs in data science and computational science At the same time readers are introduced to the fundamental concepts of programming including variables functions loops classes and object oriented programming Accordingly the book provides a sound basis for further computer science and programming studies

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