

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

**Joakim Sundnes**



## **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, 2024-09-23 Introduction to Python for Science and Engineering offers a quick and incisive introduction to the Python programming language for use in any science or engineering discipline The approach is pedagogical and bottom up which means starting with examples and extracting more general principles from that experience No prior programming experience is assumed Readers will learn the basics of Python syntax data structures input and output conditionals and loops user defined functions plotting animation and visualization They will also learn how to use Python for numerical analysis including curve fitting random numbers linear algebra solutions to nonlinear equations numerical integration solutions to differential equations and fast Fourier transforms Readers learn how to interact and program with Python using JupyterLab and Spyder two simple and widely used integrated development environments All the major Python libraries for science and engineering are covered including NumPy SciPy Matplotlib and Pandas Other packages are also introduced including Numba which can render Python numerical calculations as fast as compiled computer languages such as C but without their complex overhead [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 **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 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

*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 **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

*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

*Explorations in Computing* John S. Conery, 2010-10-29 Based on the author s introductory course at the University of Oregon Explorations in Computing An Introduction to Computer Science focuses on the fundamental idea of computation and offers insight into how computation is used to solve a variety of interesting and important real world problems Taking an active learning approach the text encourages students to explore computing ideas by running programs and testing them on different inputs It also features illustrations by Phil Foglio winner of the 2009 and 2010 Hugo Award for Best Graphic Novel Classroom Tested Material The first four chapters introduce key concepts such as algorithms and scalability and hone practical lab skills for creating and using objects In the remaining chapters the author covers divide and conquer as a problem solving strategy the role of data structures issues

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**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 The book gives beginning students an introduction to computer science concepts and computer programming Designed for CS0 and CS1 courses it is very well suited for alternative lecture styles including flipped classrooms Prepares Students for Advanced Work in Computer Science A revised and updated version of the author's Explorations in Computing An Introduction to Computer Science this text incorporates two major differences It now uses Python instead of Ruby as the lab software so that students can seamlessly transition from introductory projects to more advanced studies in later courses The book also introduces Python programming providing students with sufficient programming skills so they can implement their own programs Practical Step by Step Projects The interactive lab projects in each chapter allow students to examine important ideas in computer science particularly how algorithms offer computational solutions to problems Students can type expressions view results and run experiments that help them understand the concepts in a hands on way Web Resources The Python software modules for each lab project are available on the author's website The modules include data files and sample Python code that students can copy and modify In addition the site provides a lab manual of installation instructions and tips for editing programs and running commands in a terminal emulator

**A Concise Introduction to Programming in Python** Mark J. Johnson, 2011-12-21 Suitable for newcomers to computer science A Concise Introduction to Programming in Python provides a succinct yet complete first course in computer science using the Python programming language The book features Short modular chapters with brief and precise explanations intended for one class period Early introduction of basic procedural concepts

**Practical Numerical Computing Using Python** Mahendra Verma, 2021-11-14 Review This excellent book of Prof Verma is a single resource which a student can use to learn the fast developing field of computational science In addition to the description of Python language it provides a

broad overview of hardware software classic numerical methods and everything in between I recommend it strongly to all Prof Prateek Sharma IISc Bengaluru Key Features of the Book Perfect book for introduction to practical numerical algorithms and programs for advanced undergraduate and beginning graduate students Introduces Python programming language and its modules related to numerical computing Covers Numpy Matplotlib and Scipy modules in details Illustrates how to make a variety of plots and animations Detailed discussions on important numerical algorithms Interpolation Integration Differentiation ODE and PDE solvers and Linear algebra solvers Practical implementation of the algorithms in Python Introduces Spectral and Finite difference methods and applications to fluid mechanics and quantum mechanics Includes chapters on Monte Carlo methods and applications to statistical physics as well as on error analysis A brief introduction to Computer hardware complexity estimates and nondimensionalization

**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 for 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 for Business and Social Science Applications** Frederick Kaefer, Paul Kaefer, 2020-08-06 Would you like to gather big datasets analyze them and visualize the results all in one program If this describes you then Introduction to Python Programming for Business and Social Science Applications is the book for you Authors Frederick Kaefer and Paul Kaefer walk you through each step of the Python package installation and analysis process with frequent exercises throughout so you can immediately try out the functions you ve learned Written in straightforward language for those with no programming background this book will teach you how to use Python for your research and data analysis Instead of teaching you the principles and practices of programming as a whole this application oriented text focuses on only what you need to know to research and answer social science questions The text features two types of examples one set from the General Social Survey and one set from a large taxi trip dataset from a major metropolitan area to help readers understand the possibilities of working with Python Chapters on installing and working

within a programming environment basic skills and necessary commands will get you up and running quickly while chapters on programming logic data input and output and data frames help you establish the basic framework for conducting analyses Further chapters on web scraping statistical analysis machine learning and data visualization help you apply your skills to your research More advanced information on developing graphical user interfaces GUIs help you create functional data products using Python to inform general users of data who don't work within Python First there was IBM SPSS then there was R and now there's Python Statistical software is getting more aggressive let authors Frederick Kaefer and Paul Kaefer help you tame it with *Introduction to Python Programming for Business and Social Science Applications* ,

*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

**A Concise Introduction to Programming in Python** Mark J. Johnson,2018-04-17 A Concise Introduction to Programming in Python Second Edition provides a hands on and accessible introduction to writing software in Python with no prior programming experience required The Second Edition was thoroughly reorganized and rewritten based on classroom experience to incorporate A spiral approach starting with turtle graphics and then revisiting concepts in greater depth using numeric textual and image data Clear concise explanations written for beginning students emphasizing core principles A variety of accessible examples focusing on key concepts Diagrams to help visualize new concepts New sections on recursion and exception handling as well as an earlier introduction of lists based on instructor feedback The text offers sections designed for approximately one class period each and proceeds gradually from procedural to object oriented design Examples exercises and projects are included from diverse application domains including finance biology image processing and textual analysis It also includes a brief How To sections that introduce optional topics students may be interested in exploring The text is written to be read making it a good fit in flipped classrooms Designed for either classroom use or self study all example programs and solutions to odd numbered exercises except for projects are available at <http://www.central.edu/go/conciseintro>

**Programming for Computations - Python** Svein Linge,Hans Petter Langtangen,2016-07-25 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 The book outlines the shortest possible path from no previous experience with programming to a set of skills that allows the students to write simple programs for solving common mathematical problems with numerical methods in engineering and science courses The emphasis is on generic algorithms clean design of programs use of functions and automatic tests for verification *Introduction to Python for the Computer and Data Sciences* Paul Deitel,Paul J. Deitel,Harvey

Deitel,2019-02-15 For introductory level Python programming and or data science courses A groundbreaking flexible approach to computer science and data science The Deitels *Introduction to Python for Computer Science and Data Science Learning to Program with AI Big Data and the Cloud* offers a unique approach to teaching introductory Python programming appropriate for both computer science and data science audiences Providing the most current coverage of topics and applications the book is paired with extensive traditional supplements as well as Jupyter Notebooks supplements Real world datasets and artificial intelligence technologies allow students to work on projects making a difference in business industry government and academia Hundreds of examples exercises projects EEPs and implementation case studies give students an engaging challenging and entertaining introduction to Python programming and hands on data science The book s modular architecture enables instructors to conveniently adapt the text to a wide range of computer science and data science courses offered to audiences drawn from many majors Computer science instructors can integrate as much or as little data science and artificial intelligence topics as they d like and data science instructors can integrate as much or as little Python as they d like The book aligns with the latest ACM IEEE CS and related computing curriculum initiatives and with the Data Science Undergraduate Curriculum Proposal sponsored by the National Science Foundation

**Introduction to Python and Spice for Electrical and Computer Engineers** James C. Squire,Anthony E. English,2024-10-04 *Introduction to Python and Spice for Electrical and Computer Engineers* introduces freshman and sophomore engineering students to programming in Python and Spice through engaged problem based learning and dedicated Electrical and Computer Engineering content This book draws its problems and examples specifically from Electrical and Computer Engineering covering such topics as matrix algebra complex exponentials and plotting using examples drawn from circuit analysis signal processing and filter design It teaches relevant computation techniques in the context of solving common problems in Electrical and Computer Engineering This book is unique among Python textbooks for its dual focus on introductory level learning and discipline specific content in Electrical and Computer Engineering No other textbook on the market currently targets this audience with the same attention to discipline specific content and engaged learning practices Although it is primarily an introduction to programming in Python the book also has a chapter on circuit simulation using Spice It also includes materials helpful for ABET accreditation such information on professional development ethics and lifelong learning Introduces Electrical and

Computer Engineering specific topics such as phasor analysis and complex exponentials that are not covered in generic engineering Python texts Pedagogically appropriate for freshmen and sophomores with little or no prior programming experience Teaches both scripts and functions but emphasizes the use of functions since scripts with nonscoped variables are less commonly encountered after introductory courses Covers graphics before more abstract programming supporting early student confidence Introduces Python commands as needed to solve progressively more complex EE ECE specific problems and includes over 100 embedded in chapter questions to check comprehension in stages

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