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NumPy

Third Edition

Build efficient, high-speed programs using the
high-performance NumPy mathematical library

Beginner's Guide

Ivan Idris

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Numpy Beginners Guide Third Edition

Brady Ellison

Numpy Beginners Guide Third Edition:

NumPy Beginner's Guide (Second Edition) Ivan Idris, 2013-04-25 The book is written in beginner's guide style with each aspect of NumPy demonstrated with real world examples and required screenshots. If you are a programmer, scientist or engineer who has basic Python knowledge and would like to be able to do numerical computations with Python, this book is for you. No prior knowledge of NumPy is required. [NUMPY BEGINNER'S GUIDE](#). IVAN. IDRIS, 2018 [NumPy](#) Ivan Idris, 2015 Build efficient high speed programs using the high performance NumPy mathematical library. In Detail. In today's world of science and technology, it's all about speed and flexibility. When it comes to scientific computing, NumPy tops the list. NumPy will give you both speed and high productivity. This book will walk you through NumPy with clear step by step examples and just the right amount of theory. The book focuses on the fundamentals of NumPy, including array objects, functions and matrices, each of them explained with practical examples. You will then learn about different NumPy modules while performing mathematical operations such as calculating the Fourier transform, finding the inverse of a matrix and determining eigenvalues among many others. This book is a one stop solution to knowing the ins and outs of the vast NumPy library, empowering you to use its wide range of mathematical features to build efficient high speed programs. What You Will Learn: Install NumPy, matplotlib, SciPy and IPython on various operating systems. Use NumPy array objects to perform array operations. Familiarize yourself with commonly used NumPy functions. Use NumPy matrices for matrix algebra. Work with the NumPy modules to perform various algebraic operations. Test NumPy code with the numpy.testing module. Plot simple plots, subplots, histograms and more with matplotlib. Downloading the example code for this book: You can download the example code files for all Packt books you have purchased from your account at <http://www.PacktPub.com>. If you purchased this book elsewhere, you can visit <http://www.PacktPub.com>, support and register to have the files e-mailed directly to you. **Python Data Analysis Cookbook** Ivan Idris, 2016-07-22 Over 140 practical recipes to help you make sense of your data with ease and build production ready data apps. About This Book: Analyze Big Data sets, create attractive visualizations and manipulate and process various data types. Packed with rich recipes to help you learn and explore amazing algorithms for statistics and machine learning. Authored by Ivan Idris, expert in Python programming and proud author of eight highly reviewed books. Who This Book Is For: This book teaches Python data analysis at an intermediate level, with the goal of transforming you from journeyman to master. Basic Python and data analysis skills and affinity are assumed. What You Will Learn: Set up reproducible data analysis. Clean and transform data. Apply advanced statistical analysis. Create attractive data visualizations. Web scrape and work with databases, Hadoop and Spark. Analyze images and time series data. Mine text and analyze social networks. Use machine learning and evaluate the results. Take advantage of parallelism and concurrency. In Detail: Data analysis is a rapidly evolving field and Python is a multi-paradigm programming language suitable for object oriented application development and functional design patterns. As Python offers a range of tools and libraries for all purposes, it has

slowly evolved as the primary language for data science including topics on data analysis visualization and machine learning Python Data Analysis Cookbook focuses on reproducibility and creating production ready systems You will start with recipes that set the foundation for data analysis with libraries such as matplotlib NumPy and pandas You will learn to create visualizations by choosing color maps and palettes then dive into statistical data analysis using distribution algorithms and correlations You'll then help you find your way around different data and numerical problems get to grips with Spark and HDFS and then set up migration scripts for web mining In this book you will dive deeper into recipes on spectral analysis smoothing and bootstrapping methods Moving on you will learn to rank stocks and check market efficiency then work with metrics and clusters You will achieve parallelism to improve system performance by using multiple threads and speeding up your code By the end of the book you will be capable of handling various data analysis techniques in Python and devising solutions for problem scenarios Style and Approach The book is written in cookbook style striving for high realism in data analysis Through the recipe based format you can read each recipe separately as required and immediately apply the knowledge gained

Python Data Analysis Armando Fandango, 2017-03-27 Learn how to apply powerful data analysis techniques with popular open source Python modules About This Book Find manipulate and analyze your data using the Python 3.5 libraries Perform advanced high performance linear algebra and mathematical calculations with clean and efficient Python code An easy to follow guide with realistic examples that are frequently used in real world data analysis projects Who This Book Is For This book is for programmers scientists and engineers who have the knowledge of Python and know the basics of data science It is for those who wish to learn different data analysis methods using Python 3.5 and its libraries This book contains all the basic ingredients you need to become an expert data analyst What You Will Learn Install open source Python modules such NumPy SciPy Pandas statsmodels scikit-learn theano keras and tensorflow on various platforms Prepare and clean your data and use it for exploratory analysis Manipulate your data with Pandas Retrieve and store your data from RDBMS NoSQL and distributed filesystems such as HDFS and HDF5 Visualize your data with open source libraries such as matplotlib bokeh and plotly Learn about various machine learning methods such as supervised unsupervised probabilistic and Bayesian Understand signal processing and time series data analysis Get to grips with graph processing and social network analysis In Detail Data analysis techniques generate useful insights from small and large volumes of data Python with its strong set of libraries has become a popular platform to conduct various data analysis and predictive modeling tasks With this book you will learn how to process and manipulate data with Python for complex analysis and modeling We learn data manipulations such as aggregating concatenating appending cleaning and handling missing values with NumPy and Pandas The book covers how to store and retrieve data from various data sources such as SQL and NoSQL CSV files and HDF5 We learn how to visualize data using visualization libraries along with advanced topics such as signal processing time series textual data analysis machine learning and social media analysis The book covers a plethora of

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- Explore data science and its various process models.
- Perform data manipulation using NumPy and pandas for aggregating, cleaning, and handling missing values.
- Create interactive visualizations using Matplotlib, Seaborn, and Bokeh.
- Retrieve, process, and store data in a wide range of formats.
- Understand data preprocessing and feature engineering using pandas and scikit-learn.
- Perform time series analysis and signal processing using sunspot cycle data.
- Analyze textual data and image data to perform advanced analysis.
- Get up to speed with parallel computing using Dask.

Who this book is for:

This book is for data analysts, business analysts, statisticians, and data scientists looking to learn how to use Python for data analysis. Students and academic faculties will also find this book useful for learning and teaching Python data analysis using a hands-on approach. A basic understanding of math and working knowledge of the Python programming language will help you get started with this book.

[Numerical Python](#) Robert Johansson, 2015-10-07

[Numerical Python](#) by Robert Johansson shows you how to leverage the numerical and mathematical modules in Python and its Standard Library as well as popular open source numerical Python packages like NumPy, SciPy, matplotlib, and more to numerically compute solutions and mathematically model applications in a number of areas like big data, cloud computing, financial engineering, business management, and more. After reading and using this book you'll get some takeaway case study examples of applications that can be found in areas like business management, big data, cloud computing, financial engineering (i.e., options trading, investment alternatives), and even games. Up until very recently, Python was mostly regarded as just a web scripting language. Well, computational scientists and engineers have recently discovered the flexibility and power of Python to do more. Big data analytics and cloud computing programmers are seeing Python's immense use. Financial engineers are also now employing Python in their work. Python seems to be evolving as a language that can even rival C, Fortran, and Pascal. Delphi for numerical and mathematical computations.

[Python Unlocked](#) Arun Tiwari, 2015-12-30

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Designing and Developing Innovative Mobile Applications Samanta, Debabrata,2023-04-12 Since

mobile communication has become so ingrained in our daily lives many people find it difficult to function without a cellphone When the phone first came out the only commonly used features were calling and sending text messages texts The intelligent mobile phone has proven to be a multipurpose tool that works best for communication and aids in learning earning and having fun This in turn prompted several developers to consider creating mobile applications Designing and Developing Innovative Mobile Applications focuses on the fundamentals of the Android OS and its device features the deployment of any Android application and the activities and intents of Android programming Covering key topics such as mobile pages

software development and communication this premier reference source is ideal for computer scientists industry professionals researchers academicians scholars practitioners instructors and students **NumPy: Beginner's Guide - Third Edition** Ivan Idris,2015-06-24 About This Book Written as a step by step guide this book aims to give you a strong foundation in NumPy and breaks down its complex library features into simple tasks Perform high performance calculations with clean and efficient NumPy code Analyze large datasets with statistical functions and execute complex linear algebra and mathematical computations Who This Book Is For This book is for the scientists engineers programmers or analysts looking for a high quality open source mathematical library Knowledge of Python is assumed Also some affinity or at least interest in mathematics and statistics is required However I have provided brief explanations and pointers to learning resources

CompTIA CySA+ Cybersecurity Analyst Certification All-in-One Exam Guide, Third Edition (Exam CS0-003)

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Learning NumPy Array Ivan Idris,2014-06-13 A step by step guide packed with examples of practical numerical analysis that will give you a comprehensive but concise overview of NumPy This book is for programmers scientists or engineers who have basic Python knowledge and would like to be able to do numerical computations with Python

NumPy 1.5 Ivan Idris,2011 The book is written in beginner s guide style with each aspect of NumPy demonstrated by real world examples There is appropriate explained code with the required screenshots thrown in for the novice This book is for the programmer scientist or engineer who has basic Python knowledge and would like to be able to do numerical computations with Python

A Beginners Guide to Python 3 Programming John Hunt,2019-08-08 This textbook on Python 3 explains concepts such as variables and what they represent how data is held in memory how a for loop works and what a string is It also introduces key concepts such as functions modules and packages as well as object orientation and functional programming Each section is prefaced with an introductory chapter before continuing with how these ideas work in Python Topics such as generators and coroutines are often misunderstood and these are explained in detail whilst topics

such as Referential Transparency multiple inheritance and exception handling are presented using examples A Beginners Guide to Python 3 Programming provides all you need to know about Python with numerous examples provided throughout including several larger worked case studies illustrating the ideas presented in the previous chapters **Problem Solving with Python 3.6 Edition: A Beginner's Guide to Python & Open-Source Programming Tools** Peter D.

Kazarinoff,2019-01-09 Get started solving problems with the Python programming language This book introduces some of the most famous scientific libraries for Python Python s math and statistics module to do calculationsMatplotlib to build 2D and 3D plotsNumPy to complete calculations on arraysJupyter Notebooks to share results with a teamSymPy to solve equationsPySerial to control an Arduino with PythonMicroPython to control an LEDThis book is great for budding engineers and data scientists The text starts with the basics but finishes with topics rarely included in other engineering and data science programming books like SymPy and PySerial and MicroPython [Numpy Cookbook - Second Edition](#) Ivan

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