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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

**Robert Johansson**



## **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

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**What You Will Learn** Install open source Python modules such as 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

Python modules such as matplotlib statsmodels scikit learn and NLTK It also covers using Python with external environments such as R Fortran C C and Boost libraries Style and approach The book takes a very comprehensive approach to enhance your understanding of data analysis Sufficient real world examples and use cases are included in the book to help you grasp the concepts quickly and apply them easily in your day to day work Packed with clear easy to follow examples this book will turn you into an ace data analyst in no time

**Building Machine Learning Systems with Python** Luis Pedro Coelho, Willi Richert, Matthieu Brucher, 2018-07-31 Get more from your data by creating practical machine learning systems with Python

**Key Features** Develop your own Python based machine learning system Discover how Python offers multiple algorithms for modern machine learning systems Explore key Python machine learning libraries to implement in your projects

**Book Description** Machine learning allows systems to learn things without being explicitly programmed to do so Python is one of the most popular languages used to develop machine learning applications which take advantage of its extensive library support This third edition of Building Machine Learning Systems with Python addresses recent developments in the field by covering the most used datasets and libraries to help you build practical machine learning systems Using machine learning to gain deeper insights from data is a key skill required by modern application developers and analysts alike Python being a dynamic language allows for fast exploration and experimentation This book shows you exactly how to find patterns in your raw data You will start by brushing up on your Python machine learning knowledge and being introduced to libraries You ll quickly get to grips with serious real world projects on datasets using modeling and creating recommendation systems With Building Machine Learning Systems with Python you ll gain the tools and understanding required to build your own systems all tailored to solve real world data analysis problems By the end of this book you will be able to build machine learning systems using techniques and methodologies such as classification sentiment analysis computer vision reinforcement learning and neural networks What you will learn Build a classification system that can be applied to text images and sound Employ Amazon Web Services AWS to run analysis on the cloud Solve problems related to regression using scikit learn and TensorFlow Recommend products to users based on their past purchases Understand different ways to apply deep neural networks on structured data Address recent developments in the field of computer vision and reinforcement learning Who this book is for Building Machine Learning Systems with Python is for data scientists machine learning developers and Python developers who want to learn how to build increasingly complex machine learning systems You will use Python s machine learning capabilities to develop effective solutions Prior knowledge of Python programming is expected

**Python Data Analysis** Avinash Navlani, Armando Fandango, Ivan Idris, 2021-02-05 Understand data analysis pipelines using machine learning algorithms and techniques with this practical guide

**Key Features** Prepare and clean your data to use it for exploratory analysis data manipulation and data wrangling Discover supervised unsupervised probabilistic and Bayesian machine learning methods Get to grips with graph processing and sentiment analysis

**Book Description** Data analysis enables

you to generate value from small and big data by discovering new patterns and trends and Python is one of the most popular tools for analyzing a wide variety of data With this book you ll get up and running using Python for data analysis by exploring the different phases and methodologies used in data analysis and learning how to use modern libraries from the Python ecosystem to create efficient data pipelines Starting with the essential statistical and data analysis fundamentals using Python you ll perform complex data analysis and modeling data manipulation data cleaning and data visualization using easy to follow examples You ll then understand how to conduct time series analysis and signal processing using ARMA models As you advance you ll get to grips with smart processing and data analytics using machine learning algorithms such as regression classification Principal Component Analysis PCA and clustering In the concluding chapters you ll work on real world examples to analyze textual and image data using natural language processing NLP and image analytics techniques respectively Finally the book will demonstrate parallel computing using Dask By the end of this data analysis book you ll be equipped with the skills you need to prepare data for analysis and create meaningful data visualizations for forecasting values from data What you will learnExplore data science and its various process modelsPerform data manipulation using NumPy and pandas for aggregating cleaning and handling missing valuesCreate interactive visualizations using Matplotlib Seaborn and BokehRetrieve process and store data in a wide range of formatsUnderstand data preprocessing and feature engineering using pandas and scikit learnPerform time series analysis and signal processing using sunspot cycle dataAnalyze textual data and image data to perform advanced analysisGet up to speed with parallel computing using DaskWho 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 FiPy 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 Tigeraniya,2015-12-30 Become more fluent in Python

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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

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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 Idris,2015-04-30 **Learning Python** Samuel Hack,2019-08 Buy the Paperback Version of this Book and get the Kindle Book Version for FREE Are you looking to learn more about the world of coding and programming but you are worried that it is going to be too hard and too complicated to get started Have you been interested in learning how to code but worry that it is too hard and that you won't be able to learn all of the different parts that come together to make a program work Do you have a great idea for an app or a program that you want to create but you don't know how to make it all work and how to put it together There are a lot of reasons to learn a new coding language but no matter what reason is behind your motivation the Python coding language is going to be the platform that you need to make it all happen This guidebook is going to spend some time looking into the Python coding language and all of the different things that you are able to do with it Inside this guidebook we are going to explore a lot of the different parts of the Python code and how you can put it all together while learning how to code Some of the topics that we will discuss inside include What is Python and why would I want to learn how to work with it The basics of the Python code and how to get started writing some of our own What it means that Python is an OOP language and how that is going to make a difference in my coding How to write some loops and conditional statements in the Python language What is an exception and how to handle the automatic exceptions in this code while writing some of your own How to work with an inheritance to save some room and make code writing a bit easier How to write some of your own regular expressions and why they are so important to your goals in code writing with Python A look at some of the best Python libraries including Matplotlib and Scikit Learn and what you are able to do with them when you are working on your codes There is just so much that you will be able to do when you decide to work with the Python coding language Even if you have never worked with any kind of coding language in the past Python is definitely going to make things easy to start and you will be writing some of your own codes in no time When you are ready to get started with Python and writing some of your own Python codes even with machine learning in the process make sure to check out this guidebook to help you get started Scroll Up and Click the

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Problem Solving with Python 3. 7 Edition Peter D. Kazarinoff,2019-09-15 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 calculations Matplotlib to build 2D and 3D plots NumPy to complete calculations on arrays Jupiter Notebooks to share results with a team SymPy to solve equations PySerial to control an Arduino with Python MicroPython 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

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