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# NumPy

*Second Edition*

An action packed guide using real world examples of the easy to use, high performance, free open source NumPy mathematical library

## *Beginner's Guide*

Ivan Idris

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# Numpy Beginners Guide Second Edition

**Ivan Idris**



## **Numpy Beginners Guide Second 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 *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 **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

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subject through programming The book's chapters are written methodically step by step so that programming becomes simple More emphasis is placed on computationally modelling the methodologies and discussing the numerical method Python is chosen as the programming language because it is simple to comprehend and use compared to other programming languages The book allows readers to use and experiment with the approaches it describes With very few adjustments many of the programmes in the book can be utilised for applications in science and engineering

*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 learn 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

**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

**NumPy Cookbook - Second Edition** Ivan Idris, 2015-04-30

**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 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

**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

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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

**A Guide to NumPy** Travis E. Oliphant,2006

**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

[Guide to NumPy](#) Travis Oliphant,2015-09-15 This is the second edition of Travis Oliphant s A Guide to NumPy originally published electronically in 2006 It is designed to be a reference that can be used by practitioners who are familiar with Python but want to learn more about NumPy and related tools In this updated edition new perspectives are shared as well as descriptions of new distributed processing tools in the ecosystem and how Numba can be used to compile code using NumPy arrays Travis Oliphant is the co founder and CEO of Continuum Analytics Continuum Analytics develops Anaconda the leading modern open source analytics platform powered by Python Travis who is a passionate advocate of open source technology has a Ph D from Mayo Clinic and B S and M S degrees in Mathematics and Electrical Engineering from Brigham Young University Since 1997 he has worked extensively with Python for computational and data science He was the primary creator of the NumPy package and founding contributor to the SciPy package He was also a co founder and past board member of NumFOCUS a non profit for reproducible and accessible science that supports the PyData stack He also served on the board of the Python Software Foundation

**A Beginners Guide to Python 3 Programming** John Hunt,2023-08-30

This textbook is aimed at readers who have little or no knowledge of computer programming but want to learn to program in Python. It starts from the very basics including how to install your Python environment, how to write a very simple program and run it, what a variable is, what an if statement is, how iteration works using for and while loops, as well as important key concepts such as functions, classes, and modules. Each subject area is prefaced with an introductory chapter before continuing with how these ideas work in Python. The second edition has been completely updated for the latest versions of Python, including Python 3.11 and Python 3.12. New chapters have been added such as those that consider where and how Python is used, the use of Frozensets, how data can be sorted, enumerated types in Python, structural pattern matching, and how and why Python Virtual Environments are configured. A new chapter, The Python Bites back, is introduced to present the fourteen most common biggest gotchas for someone new to Python. Other sections have been updated with new features such as Exception Groups, string operations, and dictionary operations. A Beginners Guide to Python 3 Programming, second Edition, 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.

**Python for Data Analysis** Brady Ellison, Ready to learn Data Science through Python language Python for Data Analysis is a step by step guide for beginners and dabblers alike. This book is designed to offer working knowledge of Python and data science and some of the tools required to apply that knowledge. It is possible that you have little experience with or knowledge of data analysis and are interested in it. You might have some experience in coding. You may have worked with data before and want to use Python. We have made this book in a way that will be helpful to all these groups and more besides in varying ways. This can serve as an introduction to the most current tools and functions of those tools used by data scientists. In this book, You will learn Data Science Analysis and its applications. IPython and Jupyter: an introduction to the basic tools and how to navigate and use them. You will also learn about its importance in a data scientist's ecosystem. Pandas: a powerful data management Python library that lets you do interesting things with data. You will learn all the basics you need to get started. NumPy: a powerful numerical library for Python. You will learn more about its advantages. Get your copy now.

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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 Buy now button

**Python Machine Learning** Lilly Trinity, 2020-01-03 Python is high level programming general purpose language that is increasingly used in data science and the design of machine learning algorithms This book gives a quick introduction to Python and its libraries such as numpy scipy pandas matplotlib and how it can be used to develop machine learning algorithms that solve real problems In this book you will discover information and advices on What machine learning is Libraries and Packages used to perform various machine learning tasks Applications of machine learning How to install python on your system Data pre processing techniques Techniques and Algorithm used in machine learning And more This book begins with an introduction to machine learning and the Python language and explains how to configure Python and its packages It also covers all important concepts such as exploratory data analysis data pre processing feature extraction data visualization and grouping classification regression and performance evaluation of the model This book also features several projects that teach techniques and features such as sorting news topics detecting junk e mail forecasting online ad clicks stock price forecasting and several other machine learning algorithms We have written this book for professionals who are willing to learn the basics of Python and develop applications and software by making use of the machine learning techniques such as grouping recommendation and classification In this book you will be taught how to solve data problems and implement your solutions using the powerful but simple Python programming language and its packages After reading this book you will get a broad overview of the machine learning environment and best practices for machine learning techniques

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