

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





Numpy Beginner S Guide Second Edition Idris Ivan

Ying Liu

Numpy Beginner S Guide Second Edition Idris Ivan:

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 for Numerical and Scientific Computing - Second Edition Sergio J. Rojas G., Erik A Christensen, Francisco J. Blanco-Silva, 2015-02-26 This book targets programmers and scientists who have basic Python knowledge and who are keen to perform scientific and numerical computations with SciPv NumPy: Beginner's Guide Ivan Idris, 2015-06-24 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 **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 FeaturesPrepare and clean your data to use it for exploratory analysis data manipulation and data wrangling Discover supervised unsupervised probabilistic and Bayesian machine learning methodsGet to grips with graph processing and sentiment analysisBook 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

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