



Quick answers to common problems

# NumPy Cookbook

Over 70 interesting recipes for learning the Python open source mathematical library, NumPy

Ivan Idris

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# Numpy Cookbook Idris Ivan

**Ivan Idris**



## **Numpy Cookbook Idris Ivan:**

**NumPy Cookbook** Ivan Idris,2012-10-25 Written in Cookbook style the code examples will take your Numpy skills to the next level This book will take Python developers with basic Numpy skills to the next level through some practical recipes

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

*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

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**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** Ivan Idris,2014-10-28 This book is for programmers scientists and engineers who have knowledge of the Python language and know the basics of data science It is for those who wish to learn different data analysis methods using Python and its libraries This book contains all the basic ingredients you need to become an expert data analyst

**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 wranglingDiscover supervised unsupervised probabilistic and Bayesian machine learning methodsGet to grips with graph processing and sentiment analysis

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**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

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Building Machine Learning Systems with Python Willi Richert,2013-01-01 This is a tutorial driven and practical but well grounded book showcasing good Machine Learning practices There will be an emphasis on using existing technologies instead of showing how to write your own implementations of algorithms This book is a scenario based example driven tutorial By the end of the book you will have learnt critical aspects of Machine Learning Python projects and experienced the power of ML based systems by actually working on them This book primarily targets Python developers who want to learn about and build Machine Learning into their projects or who want to pro **Software Engineering and Management:**

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*Learning SciPy 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 SciPy OpenCV: Computer Vision Projects with Python Joseph Howse,Prateek Joshi,Michael Beyeler,2016-10-24 Get savvy with OpenCV and actualize cool computer vision applications About This Book Use OpenCV s Python bindings to capture video manipulate images and track objects Learn about the different functions of OpenCV and their actual implementations Develop a series of intermediate to

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**Mastering SciPy** Francisco J. Blanco-Silva, 2015-11-10 Implement state of the art techniques to visualize solutions to challenging problems in scientific computing with the use of the SciPy stack About This Book Master the theory and algorithms behind numerical recipes and how they can be applied to real world problems Learn to combine the most appropriate built in functions from the SciPy stack by understanding the connection between the sources of your problem volume of data or computer architecture A comprehensive coverage of all the mathematical techniques needed to solve the presented topics with a discussion of the relevant algorithms built in the SciPy stack Who This Book Is For If you are a mathematician engineer or computer scientist with a proficiency in Python and familiarity with IPython this is the book

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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

**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 - Apprentissage actif - Pour l'étudiant et le futur enseignant](#) Jean Roy, 2020-03-03 Le langage Python permet dans l'industrie de piloter des systèmes complexes mais il se répand aussi dans le monde de l'éducation du lycée à l'université par sa simplicité et ses bibliothèques logicielles mathématiques notamment Ce livre présente l'essentiel du langage Python puis à travers 130 exercices et problèmes propose un entraînement

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