Quick answers to common problems

IPython Interactive Computing and Visualization Cookbook

Over 100 hands-on recipes to sharpen your skills in high-performance numerical computing and data science with Python

Cyrille Rossant

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Vimal S.Swaan

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   IPython Interactive Computing and Visualization Cookbook Cyrille Rossant,2014-09-25 Intended to anyone interested in numerical computing and data science students researchers teachers engineers analysts hobbyists Basic knowledge of Python NumPy is recommended Some skills in mathematics will help you understand the theory behind the computational methods   IPython Interactive Computing and Visualization Cookbook, Second Edition Cyrille Rossant,2018-01-31 Learn to use IPython and Jupyter Notebook for your data analysis and visualization work Key Features Leverage the Jupyter Notebook for interactive data science and visualization Become an expert in high performance computing and visualization for data analysis and scientific modeling A comprehensive coverage of scientific computing through many hands on example driven recipes with detailed step by step explanations Book Description Python is one of the leading open source platforms for data science and numerical computing IPython and the associated Jupyter Notebook offer efficient interfaces to Python for data analysis and interactive visualization and they constitute an ideal gateway to the platform IPython Interactive Computing and Visualization Cookbook Second Edition contains many ready to use focused recipes for high performance scientific computing and data analysis from the latest IPython Jupyter features to the most advanced tricks to help you write better and faster code You will apply these state of the art methods to various real world examples illustrating topics in applied mathematics scientific modeling and machine learning The first part of the book covers programming techniques code quality and reproducibility code optimization high performance computing through just in time compilation parallel computing and graphics card programming The second part tackles data science statistics machine learning signal and image processing dynamical systems and pure and applied mathematics What you will learn Master all features of the Jupyter Notebook Code better write high quality readable and well tested programs profile and optimize your code and conduct reproducible interactive computing experiments Visualize data and create interactive plots in the Jupyter Notebook Write blazingly fast Python programs with NumPy ctypes Numba Cython OpenMP GPU programming CUDA parallel IPython Dask and more Analyze data with Bayesian or frequentist statistics Pandas PyMC and R and learn from actual data through machine learning scikit learn Gain valuable insights into signals images and sounds with SciPy scikit image and OpenCV Simulate deterministic and stochastic dynamical systems in Python Familiarize yourself with math in Python using SymPy and Sage algebra analysis logic graphs geometry and probability theory Who this book is for This book is intended for anyone interested in numerical computing and data science students researchers teachers engineers analysts and hobbyists A basic knowledge of Python NumPy is recommended Some skills in mathematics will help you understand the theory behind the computational methods   *Learning IPython for Interactive Computing and Data Visualization* Cyrille Rossant,2015-10-21 Get started with Python for data analysis and numerical computing in the Jupyter notebook About This Book Learn the basics of Python in the Jupyter Notebook Analyze and visualize data with pandas NumPy matplotlib and seaborn Perform highly

efficient numerical computations with Numba Cython and ipyparallel Who This Book Is For This book targets students teachers researchers engineers analysts journalists hobbyists and all data enthusiasts who are interested in analyzing and visualizing real world datasets If you are new to programming and data analysis this book is exactly for you If you re already familiar with another language or analysis software you will also appreciate this introduction to the Python data analysis platform Finally there are more technical topics for advanced readers No prior experience is required this book contains everything you need to know What You Will Learn Install Anaconda and code in Python in the Jupyter Notebook Load and explore datasets interactively Perform complex data manipulations effectively with pandas Create engaging data visualizations with matplotlib and seaborn Simulate mathematical models with NumPy Visualize and process images interactively in the Jupyter Notebook with scikit image Accelerate your code with Numba Cython and IPython parallel Extend the Notebook interface with HTML JavaScript and D3 In Detail Python is a user friendly and powerful programming language IPython offers a convenient interface to the language and its analysis libraries while the Jupyter Notebook is a rich environment well adapted to data science and visualization Together these open source tools are widely used by beginners and experts around the world and in a huge variety of fields and endeavors This book is a beginner friendly guide to the Python data analysis platform After an introduction to the Python language IPython and the Jupyter Notebook you will learn how to analyze and visualize data on real world examples how to create graphical user interfaces for image processing in the Notebook and how to perform fast numerical computations for scientific simulations with NumPy Numba Cython and ipyparallel By the end of this book you will be able to perform in depth analyses of all sorts of data Style and approach This is a hands on beginner friendly guide to analyze and visualize data on real world examples with Python and the Jupyter Notebook *Python Data Science Handbook* Jake VanderPlas,2016-11-21 For many researchers Python is a first class tool mainly because of its libraries for storing manipulating and gaining insight from data Several resources exist for individual pieces of this data science stack but only with the Python Data Science Handbook do you get them all IPython NumPy Pandas Matplotlib Scikit Learn and other related tools Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day to day issues manipulating transforming and cleaning data visualizing different types of data and using data to build statistical or machine learning models Quite simply this is the must have reference for scientific computing in Python With this handbook you ll learn how to use IPython and Jupyter provide computational environments for data scientists using Python NumPy includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas features the DataFrame for efficient storage and manipulation of labeled columnar data in Python Matplotlib includes capabilities for a flexible range of data visualizations in Python Scikit Learn for efficient and clean Python implementations of the most important and established machine learning algorithms *Natural Language Processing with TensorFlow* Thushan Ganegedara,2018-05-31 Write modern natural

language processing applications using deep learning algorithms and TensorFlow Key Features Focuses on more efficient natural language processing using TensorFlow Covers NLP as a field in its own right to improve understanding for choosing TensorFlow tools and other deep learning approaches Provides choices for how to process and evaluate large unstructured text datasets Learn to apply the TensorFlow toolbox to specific tasks in the most interesting field in artificial intelligence Book Description Natural language processing NLP supplies the majority of data available to deep learning applications while TensorFlow is the most important deep learning framework currently available Natural Language Processing with TensorFlow brings TensorFlow and NLP together to give you invaluable tools to work with the immense volume of unstructured data in today s data streams and apply these tools to specific NLP tasks Thushan Ganegedara starts by giving you a grounding in NLP and TensorFlow basics You ll then learn how to use Word2vec including advanced extensions to create word embeddings that turn sequences of words into vectors accessible to deep learning algorithms Chapters on classical deep learning algorithms like convolutional neural networks CNN and recurrent neural networks RNN demonstrate important NLP tasks as sentence classification and language generation You will learn how to apply high performance RNN models like long short term memory LSTM cells to NLP tasks You will also explore neural machine translation and implement a neural machine translator After reading this book you will gain an understanding of NLP and you ll have the skills to apply TensorFlow in deep learning NLP applications and how to perform specific NLP tasks What you will learn Core concepts of NLP and various approaches to natural language processing How to solve NLP tasks by applying TensorFlow functions to create neural networks Strategies to process large amounts of data into word representations that can be used by deep learning applications Techniques for performing sentence classification and language generation using CNNs and RNNs About employing state of the art advanced RNNs like long short term memory to solve complex text generation tasks How to write automatic translation programs and implement an actual neural machine translator from scratch The trends and innovations that are paving the future in NLP Who this book is for This book is for Python developers with a strong interest in deep learning who want to learn how to leverage TensorFlow to simplify NLP tasks Fundamental Python skills are assumed as well as some knowledge of machine learning and undergraduate level calculus and linear algebra No previous natural language processing experience required although some background in NLP or computational linguistics will be helpful

Regression Analysis with Python Luca Massaron,Alberto Boschetti,2016-02-29 Learn the art of regression analysis with Python About This Book Become competent at implementing regression analysis in Python Solve some of the complex data science problems related to predicting outcomes Get to grips with various types of regression for effective data analysis Who This Book Is For The book targets Python developers with a basic understanding of data science statistics and math who want to learn how to do regression analysis on a dataset It is beneficial if you have some knowledge of statistics and data science What You Will Learn Format a dataset for regression and evaluate its performance Apply multiple linear regression

to real world problems Learn to classify training points Create an observation matrix using different techniques of data analysis and cleaning Apply several techniques to decrease and eventually fix any overfitting problem Learn to scale linear models to a big dataset and deal with incremental data In Detail Regression is the process of learning relationships between inputs and continuous outputs from example data which enables predictions for novel inputs There are many kinds of regression algorithms and the aim of this book is to explain which is the right one to use for each set of problems and how to prepare real world data for it With this book you will learn to define a simple regression problem and evaluate its performance The book will help you understand how to properly parse a dataset clean it and create an output matrix optimally built for regression You will begin with a simple regression algorithm to solve some data science problems and then progress to more complex algorithms The book will enable you to use regression models to predict outcomes and take critical business decisions Through the book you will gain knowledge to use Python for building fast better linear models and to apply the results in Python or in any computer language you prefer Style and approach This is a practical tutorial based book You will be given an example problem and then supplied with the relevant code and how to walk through it The details are provided in a step by step manner followed by a thorough explanation of the math underlying the solution This approach will help you leverage your own data using the same techniques **Mastering pandas for Finance** Michael Heydt,2015-05-25 If you are interested in quantitative finance financial modeling and trading or simply want to learn how Python and pandas can be applied to finance then this book is ideal for you Some knowledge of Python and pandas is assumed Interest in financial concepts is helpful but no prior knowledge is expected *Play Among Books* Miro Roman,Alice _ch3n81,2021-12-06 How does coding change the way we think about architecture This question opens up an important research perspective In this book Miro Roman and his AI Alice_ch3n81 develop a playful scenario in which they propose coding as the new literacy of information They convey knowledge in the form of a project model that links the fields of architecture and information through two interwoven narrative strands in an infinite flow of real books Focusing on the intersection of information technology and architectural formulation the authors create an evolving intellectual reflection on digital architecture and computer science Brazilian Derivatives and Securities Marcos C. S. Carreira,Richard J. Brostowicz Jr.,2016-07-11 The Brazilian financial markets operate in a very different way to G7 markets Key differences include onshore and offshore markets exponential rates business days day counts and price formation from the futures markets instead of the cash markets This book provides a quantitative applied guide to the offshore and onshore Brazilian markets with a focus on the financial instruments unique to the region It offers a comprehensive introduction to the key financial archaeology in the Brazil context exploring interest rates FX and inflation and key differences from G7 market finance It explores the core industry investment banking business in detail from FX to interest rates and cash and inflation Finally it introduces the region s unique financial instruments as well as their pricing and risk management needs Covering

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platforms for data science and numerical computing IPython and the associated Jupyter Notebook offer efficient interfaces to Python for data analysis and interactive visualization and they constitute an ideal gateway to the platform Interactive Computing with Jupyter Notebook contains many ready to use focused recipes for high performance scientific computing and data analysis from the latest IPython Jupyter features to the most advanced tricks to help you write better and faster code This course covers programming techniques code quality and reproducibility code optimization high performance computing through just in time compilation parallel computing and graphics card programming In short you will master relatively advanced methods in interactive numerical computing high performance computing and data visualization Resource description page *Learning Ipython for Interactive Computing and Data Visualization* Cyrille Rossant,2015-02-24 IPython provides a rich architecture for interactive computing and as a Python developer you can take advantage of this practical hands on guide to make yourself an expert Covers numerical computing data analysis and more Overview A practical step by step tutorial which will help you to replace the Python console with the powerful IPython command line interface Use the IPython notebook to modernize the way you interact with Python Perform highly efficient computations with NumPy and Pandas Optimize your code using parallel computing and Cython In Detail You already use Python as a scripting language but did you know it is also increasingly used for scientific computing and data analysis Interactive programming is essential in such exploratory tasks and IPython is the perfect tool for that Once you ve learnt it you won t be able to live without it Learning IPython for Interactive Computing and Data Visualization is a practical hands on example driven tutorial to considerably improve your productivity during interactive Python sessions and shows you how to effectively use IPython for interactive computing and data analysis This book covers all aspects of IPython from the highly powerful interactive Python console to the numerical and visualization features that are commonly associated with IPython You will learn how IPython lets you perform efficient vectorized computations through examples covering numerical simulations with NumPy data analysis with Pandas and visualization with Matplotlib You will also discover how IPython can be conveniently used to optimize your code using parallel computing and dynamic compilation in C with Cython Learning IPython for Interactive Computing and Data Visualization will allow you to optimize your productivity in interactive Python sessions What you will learn from this book Debug your code from the IPython console Benchmark and profile your code from IPython Perform efficient vectorized computations with NumPy Analyze data tables with Pandas Create visualizations with Matplotlib Parallelize your code easily with IPython Customize IPython and create your own magic commands Accelerate your Python code using dynamic C compilation with Cython Approach A practical hands on guide which focuses on interactive programming numerical computing and data analysis with IPython Who this book is written for This book is for Python developers who use Python as a scripting language or for software development and are interested in learning IPython for increasing their productivity during interactive sessions in the console Knowledge of Python is required whereas no

knowledge of IPython is necessary **IPython Notebook Essentials** L. Felipe Martins,2014-11-21 If you are a professional student or educator who wants to learn to use IPython Notebook as a tool for technical and scientific computing visualization and data analysis this is the book for you This book will prove valuable for anyone that needs to do computations in an agile environment **Jupyter Cookbook** Dan Toomey,2018-04-30 Leverage the power of the popular Jupyter notebooks to simplify your data science tasks without any hassle Key Features Create and share interactive documents with live code text and visualizations Integrate popular programming languages such as Python R Julia Scala with Jupyter Develop your widgets and interactive dashboards with these innovative recipes Book Description Jupyter has garnered a strong interest in the data science community of late as it makes common data processing and analysis tasks much simpler This book is for data science professionals who want to master various tasks related to Jupyter to create efficient easy to share scientific applications The book starts with recipes on installing and running the Jupyter Notebook system on various platforms and configuring the various packages that can be used with it You will then see how you can implement different programming languages and frameworks such as Python R Julia JavaScript Scala and Spark on your Jupyter Notebook This book contains intuitive recipes on building interactive widgets to manipulate and visualize data in real time sharing your code creating a multi user environment and organizing your notebook You will then get hands on experience with Jupyter Labs microservices and deploying them on the web By the end of this book you will have taken your knowledge of Jupyter to the next level to perform all key tasks associated with it What you will learn Install Jupyter and configure engines for Python R Scala and more Access and retrieve data on Jupyter Notebooks Create interactive visualizations and dashboards for different scenarios Convert and share your dynamic codes using HTML JavaScript Docker and more Create custom user data interactions using various Jupyter widgets Manage user authentication and file permissions Interact with Big Data to perform numerical computing and statistical modeling Get familiar with Jupyter s next gen user interface JupyterLab Who this book is for This cookbook is for data science professionals developers technical data analysts and programmers who want to execute technical coding visualize output and do scientific computing in one tool Prior understanding of data science concepts will be helpful but not mandatory to use this book **Mastering Ipython 4.0** Thomas Bitterman,2016-05-30 Get to grips with the advanced concepts of interactive computing to make the most out of IPythonAbout This Book Most updated book on Interactive computing with IPython 4 0 Detailed example rich guide that lets you use the most advanced level interactive programming with IPython Get flexible interactive programming with IPython using this comprehensive guideWho This Book Is ForThis book is for IPython developers who want to make the most of IPython and perform advanced scientific computing with IPython utilizing the ease of interactive computing It is ideal for users who wish to learn about the interactive and parallel computing properties of IPython 4 0 along with its integration with third party tools and concepts such as testing and documenting results What You Will Learn Develop skills to use IPython for high performance computing HPC Understand the

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the book they will get to know about the 3D diagrams and animations Maps are irreplaceable for displaying geo spatial data so this book will also show how to build them In the last chapter it includes explanation on how to incorporate matplotlib into different environments such as a writing system LaTeX or how to create Gantt charts using Python Style and approachA step by step recipe based approach to data visualization The topics are explained sequentially as cookbook recipes consisting of a code snippet and the resulting visualization **Mastering Ipython 4.0** Tyrellt Rus,2017-03-09 IPython is an interactive computational environment in which you can combine code execution rich text mathematics plots and rich media This book will get IPython developers up to date with the latest advancements in IPython and dive deep into interactive computing with IPython This an advanced guide on interactive and parallel computing with IPython will explore advanced visualizations and high performance computing with IPython in detail

Ipython Interactive Computing And Visualization Cookbook Rossant Cyrille Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Ipython Interactive Computing And Visualization Cookbook Rossant Cyrille**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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