Cyrille Rossant

IPython Interactive Computing and Visualization Cookbook

Second Edition

Over 100 hands-on recipes to sharpen your skills in high-performance numerical computing and data science in the Jupyter Notebook

Packt>

Ipython Interactive Computing And Visualization Cookbook

Dan Toomey

Ipython Interactive Computing And Visualization Cookbook:

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 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 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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

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

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 Science Handbook* Jake VanderPlas,2022-12-06 Python is a first class tool for many researchers primarily 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 new edition of 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 the second edition of 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 IPython and Jupyter provide computational environments for scientists using Python NumPy includes the ndarray for efficient storage and manipulation of dense data arrays Pandas contains the DataFrame for efficient storage and manipulation of labeled columnar data Matplotlib includes capabilities for a flexible range of data visualizations Scikit learn helps you build efficient and clean Python implementations of the most important and established machine learning algorithms *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 *Mastering Julia* Malcolm Sherrington,2015-07-22 Julia is a well constructed programming language with fast execution speed eliminating the classic problem of performing analysis in one language and translating it for performance into a second This book will help you develop and enhance your programming skills in Julia to solve real world automation challenges This book starts off with a refresher on installing and running Julia on different platforms Next you will compare the different ways of working with Julia and explore Julia s key features in depth by looking at design and build You will see how data works using simple statistics and analytics and discover Julia s speed its real strength which makes it particularly useful in highly intensive computing tasks and observe how Julia can cooperate with external processes in order to enhance graphics and data visualization Finally you will look into meta programming and learn how it adds great power to the language and establish networking and distributed computing with Julia **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 *Learning IPython for Interactive Computing and Data Visualization - Second Edition* Cyrille Rossant,2015 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 **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 **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 **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 *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 IPython interactive shell Use XeroMQ and MPI to pass messages Integrate third party tools like R Julia and JavaScript with IPython Visualize the data Acquire knowledge to test and document the data Get to grips with the recent developments in the Jupyter notebook systemIn DetailIPython 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 You will quickly brush up your knowledge of IPython kernels and wrapper kernels then we ll move to advanced concepts such as testing Sphinx JS events interactive work and the ZMQ cluster The book will cover topics such as IPython Console Lexer advanced configuration and third party tools By the end of this book you will be able to use IPython for interactive and parallel computing in a high performance computing environment Style and approachThis is a comprehensive guide to IPython for interactive exploratory and parallel computing It will let the IPython get up to date with the latest advancements in IPython and dive deeper into interactive computing with IPython

Interactive Computing with Jupyter Notebook Cyrille Rossant,2018 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 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 **Mastering Ipython 4.0** Vimal S.Swaan,2014-02-12 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 You will quickly brush up your knowledge of IPython kernels and wrapper kernels then we ll move to advanced concepts such as testing Sphinx JS events interactive work and the ZMQ cluster The book will cover topics such as IPython Console Lexer advanced configuration and third party tools By the end of this book you will be able to use IPython for interactive and parallel computing in a high performance computing environment What you will learn Develop skills to use IPython for high performance computing HPC Understand the IPython interactive shell Use XeroMQ and MPI to pass messages Integrate third party tools like R Julia and JavaScript with IPython Visualize the data Acquire knowledge to test and document the data Get to grips with the recent developments in the Jupyter notebook system

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 **Learning Jupyter 5** Dan Toomey,2018-08-30 Create and share livecode equations visualizations and explanatory text in both a single document and a web browser with Jupyter Key Features Learn how to use Jupyter 5 x features such as cell tagging and attractive table styles Leverage big data tools and datasets with different Python packages Explore multiple user Jupyter Notebook servers Book Description The Jupyter Notebook allows you to create and share documents that contain live code equations visualizations and explanatory text The Jupyter Notebook system is extensively used in domains such as data cleaning and transformation numerical simulation statistical modeling and machine learning Learning Jupyter 5 will help you get to grips with interactive computing using real world examples The book starts with a detailed overview of the Jupyter Notebook system and its installation in different environments Next you will learn to integrate the Jupyter system with different programming languages such as R Python Java JavaScript and Julia and explore various versions and packages that are compatible with the Notebook system Moving ahead you will master interactive widgets and namespaces and work with Jupyter in a multi user mode By the end of this book you will have used Jupyter with a big dataset and be able to apply all the functionalities you ve explored throughout the book You will also have learned all about the Jupyter Notebook and be able to start performing data transformation numerical simulation and data visualization What you will learn Install and run the Jupyter Notebook system on your machine Implement programming languages such as R Python Julia and JavaScript with the Jupyter Notebook Use interactive widgets to manipulate and visualize data in real time Start sharing your Notebook with colleagues Invite your colleagues to work with you on the same Notebook Organize your Notebook using Jupyter namespaces

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Decoding **Ipython Interactive Computing And Visualization Cookbook**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Ipython Interactive Computing And Visualization Cookbook**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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