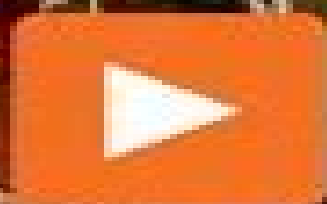


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Learning IPython for Interactive Computing and Data Visualization Cyrille Rossant, 2015-10-21 Get started with Python for data analysis and numerical computing in the Jupyter notebook About This Book Learn the basics of Python in the Jupyter Notebook Analyze and visualize data with pandas NumPy matplotlib and

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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

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

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[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

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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

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Python Data Visualization Cookbook Second Edition Igor Milovanovic, Dimitry Foures, Giuseppe Vettigli, 2015-11-30 Over 70 recipes to get you started with popular Python libraries based on the principal concepts of data visualization About This Book Learn how to set up an optimal Python environment for data visualization Understand how to import clean and organize your data Determine different approaches to data visualization and how to choose the most appropriate for your needs Who This Book Is For If you already know about Python programming and want to understand data data formats data visualization and how to use Python to visualize data then this book is for you What You Will Learn Introduce yourself to the essential tooling to set up your working environment

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