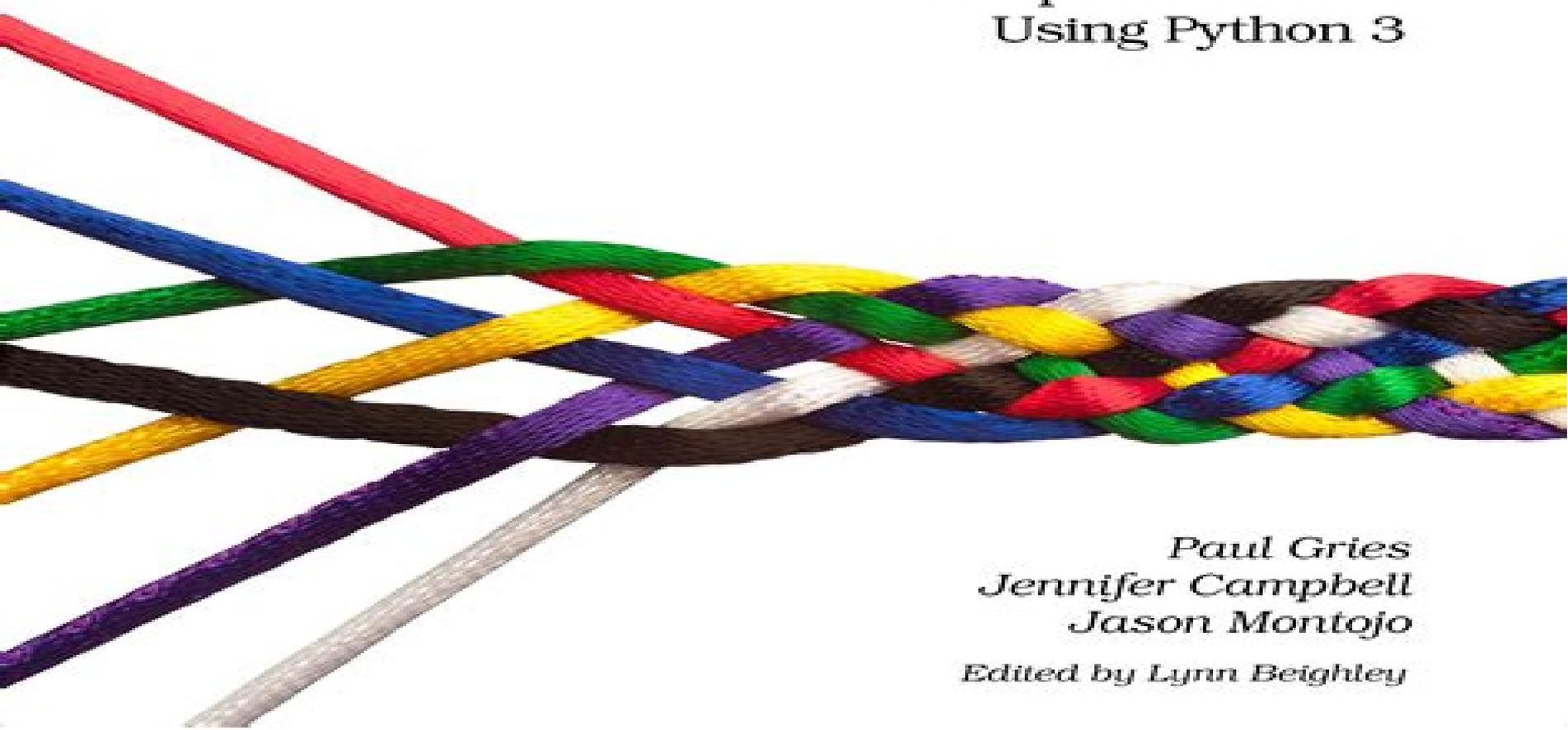


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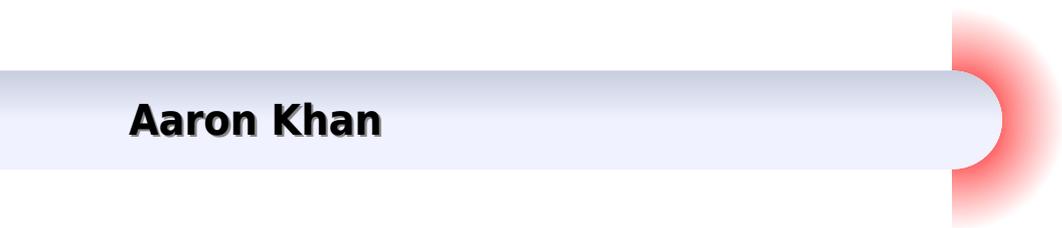


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Data Science Essentials in Python Dmitry Zinoviev, 2016-08-10 Go from messy unstructured artifacts stored in SQL and NoSQL databases to a neat well organized dataset with this quick reference for the busy data scientist Understand text mining machine learning and network analysis process numeric data with the NumPy and Pandas modules describe and analyze data using statistical and network theoretical methods and see actual examples of data analysis at work This one stop solution covers the essential data science you need in Python Data science is one of the fastest growing disciplines in terms of academic research student enrollment and employment Python with its flexibility and scalability is quickly overtaking the R language for data scientific projects Keep Python data science concepts at your fingertips with this modular quick reference to the tools used to acquire clean analyze and store data This one stop solution covers essential Python databases network analysis natural language processing elements of machine learning and visualization Access structured and unstructured text and numeric data from local files databases and the Internet Arrange rearrange and clean the data Work with relational and non relational databases data visualization and simple predictive analysis regressions clustering and decision trees See how typical data analysis problems are handled And try your hand at your own solutions to a variety of medium scale projects that are fun to work on and look good on your resume Keep this handy quick guide at your side whether you're a student an entry level data science professional converting from R to Python or a seasoned Python developer who doesn't want to memorize every function and option What You Need You need a decent distribution of Python 3.3 or above that includes at least NLTK Pandas NumPy Matplotlib NetworkX SciKit Learn and BeautifulSoup A great distribution that meets the requirements is Anaconda available for free from www.continuum.io If you plan to set up your own database servers you also need MySQL www.mysql.com and MongoDB www.mongodb.com Both packages are free and run on Windows Linux and Mac OS *Formal and Practical Aspects of Domain-Specific Languages: Recent Developments* Mernik, Marjan, 2012-09-30 This book presents current research on all aspects of domain specific language for scholars and practitioners in the software engineering fields providing new results and answers to open problems in DSL research

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[An Introduction to Python and Computer Programming](#) Yue Zhang,2015 This book introduces Python programming language and fundamental concepts in algorithms and computing Its target audience includes students and engineers with little or no background in programming who need to master a practical programming language and learn the basic thinking in computer science programming The main contents come from lecture notes for engineering students from all disciplines and has received high ratings Its materials and ordering have been adjusted repeatedly according to classroom reception Compared to alternative textbooks in the market this book introduces the underlying Python implementation of number string list tuple dict function class instance and module objects in a consistent and easy to understand way making assignment function definition function call mutability and binding environments understandable inside out By giving the abstraction of implementation mechanisms this book builds a solid understanding of the Python programming language

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abstract patterns in programming as well as how to inspect the state of a program using a debugger tool Features contains numerous examples and solved practice exercises designed for an interactive classroom environment highlights several patterns which commonly appear in programs and presents exercises that reinforce recognition and application of these patterns introduces the use of a debugger and includes supporting material that reveals how programs work presents the Tkinter framework for building graphical user interface applications and event driven programs provides helpful additional resources for instructors at the associated website <http://cs.luther.edu/leekent> CS1 This hands on textbook for active learning in the classroom will enable undergraduates in computer science to develop the necessary skills to begin developing their own programs It employs Python as the introductory language due to the wealth of support available for programmers

Python Programming Computer Programming Academy,2020-11-10 Inside this book you will find all the basic notions to start with Python and all the programming concepts to develop programs and applications With our proven strategies you will write efficient Python codes in less than a week

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