

ALLEN B. DOWNEY

PYTHON

FOR SOFTWARE DESIGN



HOW TO THINK LIKE A COMPUTER SCIENTIST

CAMBRIDGE

Python For Software Design Cambridge University Press

Simone Payment



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Python for Software Design, 2009 A no nonsense introduction to software design using the Python programming language for people with no programming experience [Python for Software Design](#) Allen B. Downey, 2009-03-09 A no nonsense introduction to software design using the Python programming language Written for people with no programming experience this book starts with the most basic concepts and gradually adds new material Some of the ideas students find most challenging like recursion and object oriented programming are divided into a sequence of smaller steps and introduced over the course of several chapters The focus is on the programming process with special emphasis on debugging The book includes a wide range of exercises from short examples to substantial projects so that students have ample opportunity to practise each new concept Exercise solutions and code examples are available from [thinkpython.com](#) along with Swampy a suite of Python programs that is used in some of the exercises

Software Design for Python Programmers Ronald Mak, 2026-02-24 Software Design for Python Programmers shows you how to level up from writing Python code to designing Python applications Following intuitive before and after examples of improved code you ll learn to plan and execute Python applications effectively and avoid bugs associated with unmanaged state poorly formed classes inflexible functions and more Great applications take advantage of established design principles and patterns that maximize performance maintainability and reliability This book helps you master the Pythonic approach to architectural principles such as encapsulation abstraction method variation and more The examples are in Python but the techniques will apply to any object oriented language In Software Design for Python Programmers you ll learn to Analyze requirements and plan application architecture Evolve designs through iterative development Shape Python classes with high cohesion and loose coupling Use decorators to introduce abstraction enforce constraints and enrich behavior Apply industry standard design principles to keep code modular and maintainable Choose and implement the right design patterns for complex challenges About the Technology Great software starts with thoughtful design You ll be a more effective developer if you can decide how data will flow through your applications create a winning software architecture and structure functions classes and modules before you write a line of code This book will get you started About the Book Software Design for Python Programmers is a practical guide for creating maintainable well structured software in Python By investigating clear before and after examples you ll discover how even small design choices can have a huge impact on an application s clarity and reliability As you go you ll learn how to gather requirements shape a program s architecture iteratively create clean and reusable abstractions and select design patterns that solve the real problems you ll face on the job What s Inside Turn vague requirements into solid designs Python specific software design techniques Create classes with high cohesion and loose coupling About the Readers For programmers comfortable with Python syntax About the Author Ronald Mak is a former NASA senior scientist Currently he teaches data science and computer science at San Jose State University He is the author of Object Oriented Software

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Getting to Know Python Simone Payment,2014-07-15 This book introduces readers to the computer programming language Python exploring its various applications and the history of its development

Doing Data Science Cathy O'Neil,Rachel Schutt,2013-10-09 Now that people are aware that data can make the difference in an election or a business model data science as an occupation is gaining ground But how can you get started working in a wide ranging interdisciplinary field that s so clouded in hype This insightful book based on Columbia University s Introduction to Data Science class tells you what you need to know In many of these chapter long lectures data scientists from companies such as Google Microsoft and eBay share new algorithms methods and models by presenting case studies and the code they use If you re familiar with linear algebra probability and statistics and have programming experience this book is an ideal introduction to data science Topics include Statistical inference exploratory data analysis and the data science process Algorithms Spam filters Naive Bayes and data wrangling Logistic regression Financial modeling Recommendation engines and causality Data visualization Social networks and data journalism Data engineering MapReduce Pregel and Hadoop Doing Data Science is collaboration between course instructor Rachel Schutt Senior VP of Data Science at News Corp and data science consultant Cathy O Neil a senior data scientist at Johnson Research Labs who attended and blogged about the course

Model-Driven Engineering and Software Development Slimane Hammoudi,Luís Ferreira Pires,Bran Selić,2020-01-03 This book constitutes thoroughly revised and selected papers from the 7th International Conference on Model Driven Engineering and Software Development MODELSWARD 2019 held in Prague Czech Republic in February 2019 The 16 thoroughly revised and extended papers presented in this volume were carefully reviewed and selected from 76 submissions They address some of the most relevant challenges being faced by researchers and practitioners in the field of model driven engineering and software development and cover topics like language design and tooling programming support tools code and text generation from models behavior modeling and analysis model transformations and multi view modeling as well as applications of MDD and its related techniques to cyber physical systems cyber security IoT autonomous vehicles and healthcare

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Introduction to Computing and Programming in Python Mark Guzdial,2005 Guzdial introduces programming as a way of creating and manipulating mediaa context familiar and intriguing to today s readers Starts readers with actual programming early on Puts programming in a relevant context Computing for Communications Includes implementing Photoshop like effects reversing splicing sounds creating animations Acknowledges that readers in this audience care about the Web introduces HTML and covers writing programs that generate HTML Uses the Web as a Data Source shows readers how to read from files but also how to write programs to directly read Web pages and distill information from there for use in other calculations other Web pages etc examples include temperature from a weather page stock prices from a financials page A comprehensive guide for anyone interested in learning the basics of programming with one of the best web languages Python **Ambient**

Communications and Computer Systems Yu-Chen Hu,Shailesh Tiwari,Munesh C. Trivedi,K. K. Mishra,2022-05-07 This book features high quality peer reviewed papers from the Fourth International Conference on Recent Advancements in Computer Communication and Computational Sciences RACCCS 2021 held at Aryabhata College of Engineering and Research Center Ajmer India on August 20 21 2021 Presenting the latest developments and technical solutions in computational sciences it covers a variety of topics such as intelligent hardware and software design advanced communications intelligent computing technologies advanced software engineering the web and informatics and intelligent image processing As such it helps those in the computer industry and academia to use the advances in next generation communication and computational technology to shape real world applications **Promoting Computer Literacy**

Through Programming Python John Alexander Miller,2004 **Operations Research Proceedings 2019** Janis S. Neufeld,Udo Buscher,Rainer Lasch,Dominik Möst,Jörn Schönberger,2020-09-24 This book gathers a selection of peer reviewed papers presented at the International Conference on Operations Research OR 2019 which was held at Technische Universit t Dresden Germany on September 4 6 2019 and was jointly organized by the German Operations Research Society GOR the Austrian Operations Research Society GOR and the Swiss Operational Research Society SOR ASRO More than 600 scientists practitioners and students from mathematics computer science business economics and related fields attended the conference and presented more than 400 papers in plenary presentations parallel topic streams as well as special award

sessions The respective papers discuss classical mathematical optimization statistics and simulation techniques These are complemented by computer science methods and by tools for processing data designing and implementing information systems The book also examines recent advances in information technology which allow big data volumes to be processed and enable real time predictive and prescriptive business analytics to drive decisions and actions Lastly it includes problems modeled and treated while taking into account uncertainty risk management behavioral issues etc

The British National Bibliography Arthur James Wells,2009 *Introduction to Computing and Programming in Python, A Multimedia Approach, Second Edition* Barbara Ericson,2012 **AMSTAT News** American Statistical Association,2009 Process Data in Educational and Psychological Measurement, 2nd Edition Hong Jiao,Qiwei He,Bernard Veldkamp,2021-12-13 Publisher s note In this 2nd edition The following article has been added Jiao H He Q and Veldkamp BP 2021 Editorial Process Data in Educational and Psychological Measurement Front Psychol 12 793399 doi 10 3389 fpsyg 2021 793399 The following article has been added Reis Costa D Bolsinova M Tijmstra J and Andersson B 2021 Improving the Precision of Ability Estimates Using Time On Task Variables Insights From the PISA 2012 Computer Based Assessment of Mathematics Front Psychol 12 579128 doi 10 3389 fpsyg 2021 579128 The following article has been removed Minghui L Lei H Xiaomeng C and Potm ilc M 2018 Teacher Efficacy Work Engagement and Social Support Among Chinese Special Education School Teachers Front Psychol 9 648 doi 10 3389 fpsyg 2018 00648

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