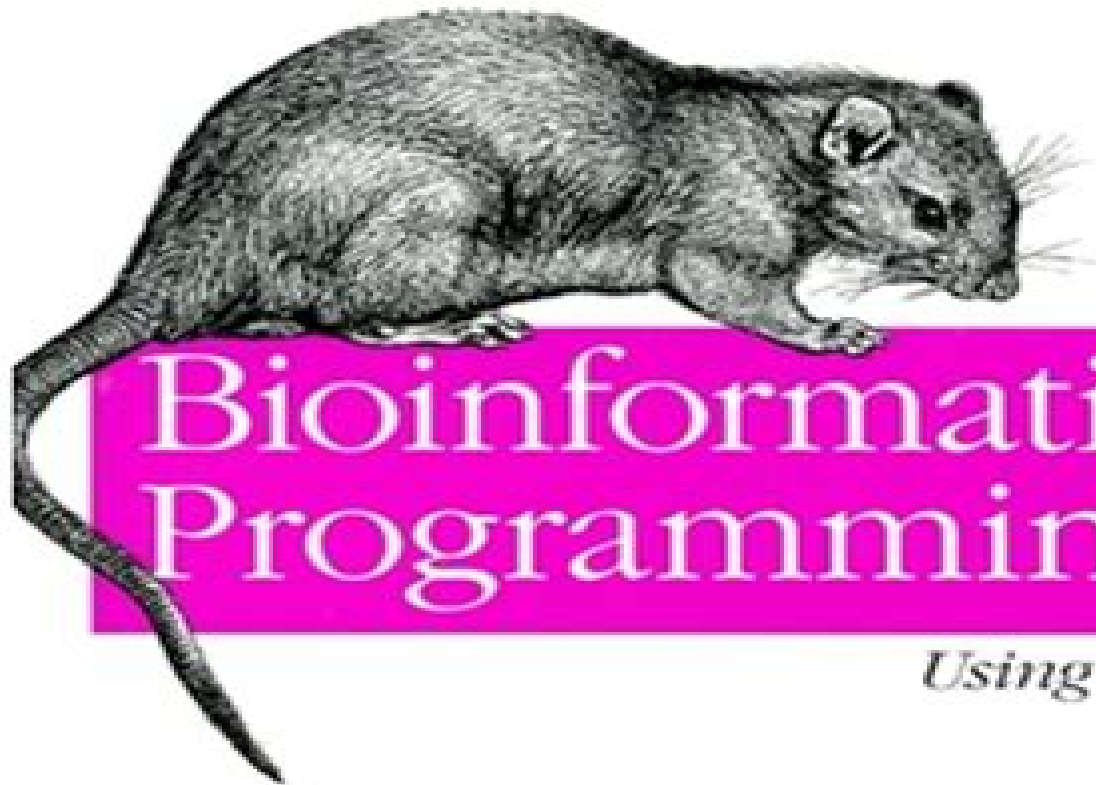


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student course taught by the author and has been optimized for biology students without previous experience in programming. By interspersing theory chapters with numerous small and large programming exercises, the author quickly shows readers how to do their own programming and throughout uses anecdotes and real life examples from the biosciences to spice up the text. This practical book thus teaches essential programming skills for life scientists who want or need to write their own bioinformatics software tools.

Mastering Python for Bioinformatics Ken Youens-Clark, 2021-05-05 Life scientists today urgently need training in bioinformatics skills. Too many bioinformatics programs are poorly written and barely maintained, usually by students and researchers who've never learned basic programming skills. This practical guide shows postdoc bioinformatics professionals and students how to exploit the best parts of Python to solve problems in biology while creating documented, tested, reproducible software. Ken Youens-Clark, author of *Tiny Python Projects* (Manning), demonstrates not only how to write effective Python code but also how to use tests to write and refactor scientific programs. You'll learn the latest Python features and tools, including linters, formatters, type checkers, and tests to create documented and tested programs. You'll also tackle 14 challenges in Rosalind, a problem-solving platform for learning bioinformatics and programming. Create command-line Python programs to document and validate parameters. Write tests to verify, refactor programs, and confirm they're correct. Address bioinformatics ideas using Python data structures and modules such as Biopython. Create reproducible shortcuts and workflows using makefiles. Parse essential bioinformatics file formats such as FASTA and FASTQ. Find patterns of text using regular expressions. Use higher-order functions in Python like filter, map, and reduce.

Advanced Python for Biologists Martin O. Jones, 2014 *Advanced Python for Biologists* is a programming course for workers in biology and bioinformatics who want to develop their programming skills. It starts with the basic Python knowledge outlined in *Python for Biologists* and introduces advanced Python tools and techniques with biological examples. You'll learn how to use object-oriented programming to model biological entities, how to write more robust code and programs by using Python's exception system, how to test your code using the unit testing framework, how to transform data using Python's comprehensions, how to write flexible functions and applications using functional programming, how to use Python's iteration framework to extend your own object and functions. *Advanced Python for Biologists* is written with an emphasis on practical problem-solving and uses everyday biological examples throughout. Each section contains exercises along with solutions and detailed discussion.

Computing for Biologists Ran Libeskind-Hadas, Eliot Christen Bush, 2014 Computing is revolutionizing the practice of biology. This book, which assumes no prior computing experience, provides students with the tools to write their own Python programs and to understand fundamental concepts in computational biology and bioinformatics. Each major part of the book begins with a compelling biological question, followed by the algorithmic ideas and programming tools necessary to explore it: the origins of pathogenicity are examined using gene finding; the evolutionary history of sex determination systems is studied using sequence alignment; and the origin of modern humans

is addressed using phylogenetic methods In addition to providing general programming skills this book explores the design of efficient algorithms simulation NP hardness and the maximum likelihood method among other key concepts and methods Easy to read and designed to equip students with the skills to write programs for solving a range of biological problems the book is accompanied by numerous programming exercises available at www.cs.hmc.edu/CFB **Python for the Life Sciences** Alexander Lancaster, Gordon Webster, 2019-09-28 Treat yourself to a lively intuitive and easy to follow introduction to computer programming in Python The book was written specifically for biologists with little or no prior experience of writing code with the goal of giving them not only a foundation in Python programming but also the confidence and inspiration to start using Python in their own research Virtually all of the examples in the book are drawn from across a wide spectrum of life science research from simple biochemical calculations and sequence analysis to modeling the dynamic interactions of genes and proteins in cells or the drift of genes in an evolving population Best of all Python for the Life Sciences shows you how to implement all of these projects in Python one of the most popular programming languages for scientific computing If you are a life scientist interested in learning Python to jump start your research this is the book for you What You'll Learn Write Python scripts to automate your lab calculations Search for important motifs in genome sequences Use object oriented programming with Python Study mining interaction network data for patterns Review dynamic modeling of biochemical switches Who This Book Is For Life scientists with little or no programming experience including undergraduate and graduate students postdoctoral researchers in academia and industry medical professionals and teachers lecturers A comprehensive introduction to using Python for computational biology A lovely book with humor and perspective John Novembre Associate Professor of Human Genetics University of Chicago and MacArthur Fellow Fun entertaining witty and darn useful A magical portal to the big data revolution Sandro Santagata Assistant Professor in Pathology Harvard Medical School Alex and Gordon's enthusiasm for Python is contagious Glenys Thomson Professor of Integrative Biology University of California Berkeley *Python for Bioinformatics* Jason M. Kinser, 2009 Bioinformatics is a growing field that attracts researchers from many different backgrounds who are unfamiliar with the algorithms commonly used in the field Python for Bioinformatics provides a clear introduction to the Python programming language and instructs beginners on the development of simple programming exercises Ideal for those with some knowledge of computer programming languages this book emphasizes Python syntax and methodologies The text is divided into three complete sections the first provides an explanation of general Python programming the second includes a detailed discussion of the Python tools typically used in bioinformatics including clustering associative memories and mathematical analysis techniques and the third section demonstrates how these tools are implemented through numerous applications

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