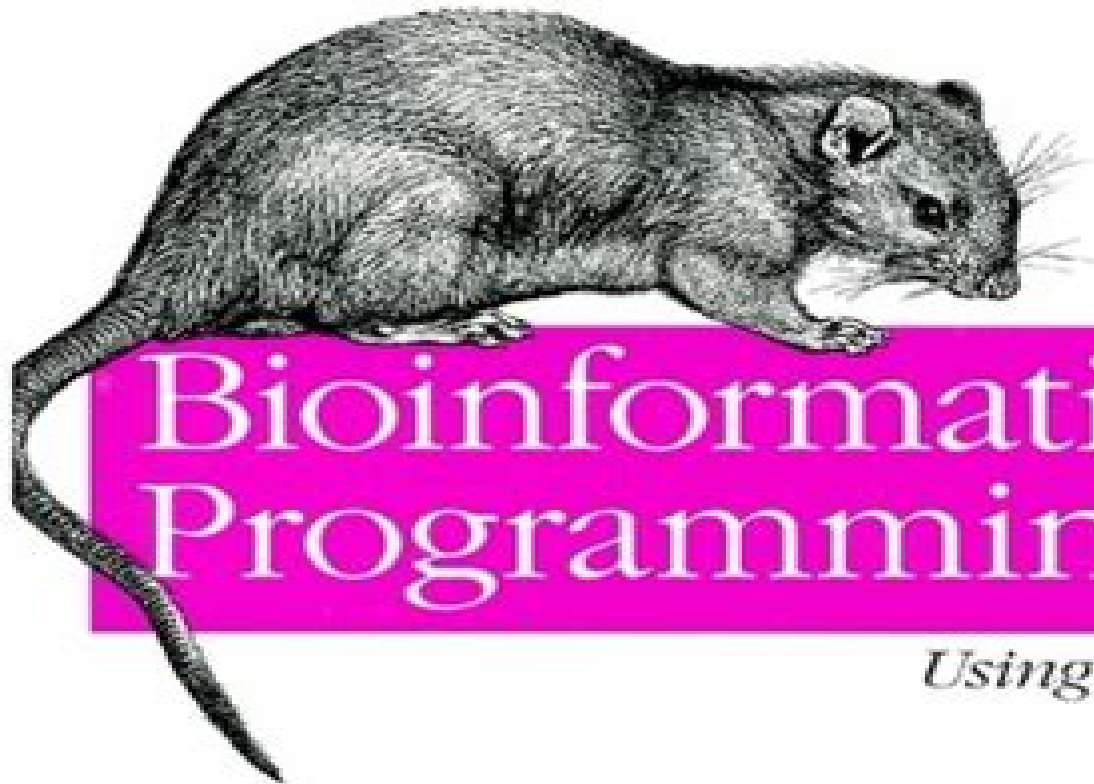


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functions in Python like filter map and reduce *Python for Bioinformatics* SEBASTIAN. BASSI,2018-04-30 Programming knowledge is often necessary for finding a solution to a biological problem Based on the author s experience working for an agricultural biotechnology company Python for Bioinformatics helps scientists solve their biological problems by helping them understand the basics of programming Requiring no prior knowledge of programming related concepts the book focuses on the easy to use yet powerful Python computer language The book begins with a very basic introduction that teaches the principles of programming It then introduces the Biopython package which can be useful in solving life science problems The next section covers sophisticated tools for bioinformatics including relational database management systems and XML The last part illustrates applications with source code such as sequence manipulation filtering vector contamination calculating DNA melting temperature parsing a genbank file inferring splicing sites and more The appendices provide a wealth of supplementary information including instructions for installing Python and Biopython and a Python language and style guide By incorporating examples in biology as well as code fragments throughout the author places a special emphasis on practice encouraging readers to experiment with the code He shows how to use Python and the Biopython package for building web applications genomic annotation data manipulation and countless other applications **Python Programming for Biology** Tim J. Stevens,Wayne Boucher,2015-02-12 Do you have a biological question that could be readily answered by computational techniques but little experience in programming Do you want to learn more about the core techniques used in computational biology and bioinformatics Written in an accessible style this guide provides a foundation for both newcomers to computer programming and those interested in learning more about computational biology The chapters guide the reader through a complete beginners course to programming in Python with an introduction to computing jargon descriptions of core bioinformatics methods with working Python examples scientific computing techniques including image analysis statistics and machine learning This book also functions as a language reference written in straightforward English covering the most common Python language elements and a glossary of computing and biological terms This title will teach undergraduates postgraduates and professionals working in the life sciences how to program with Python a powerful flexible and easy to use language *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

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Advanced Python for Biologists Martin O. Jones, 2014 Advanced Python for Biologists is a programming course for workers in biology and bioinformatics who

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