Python for Bioinformatics (Chapman Hall/CRC Mathematical and Computational Biology)

Sebastian Bassi
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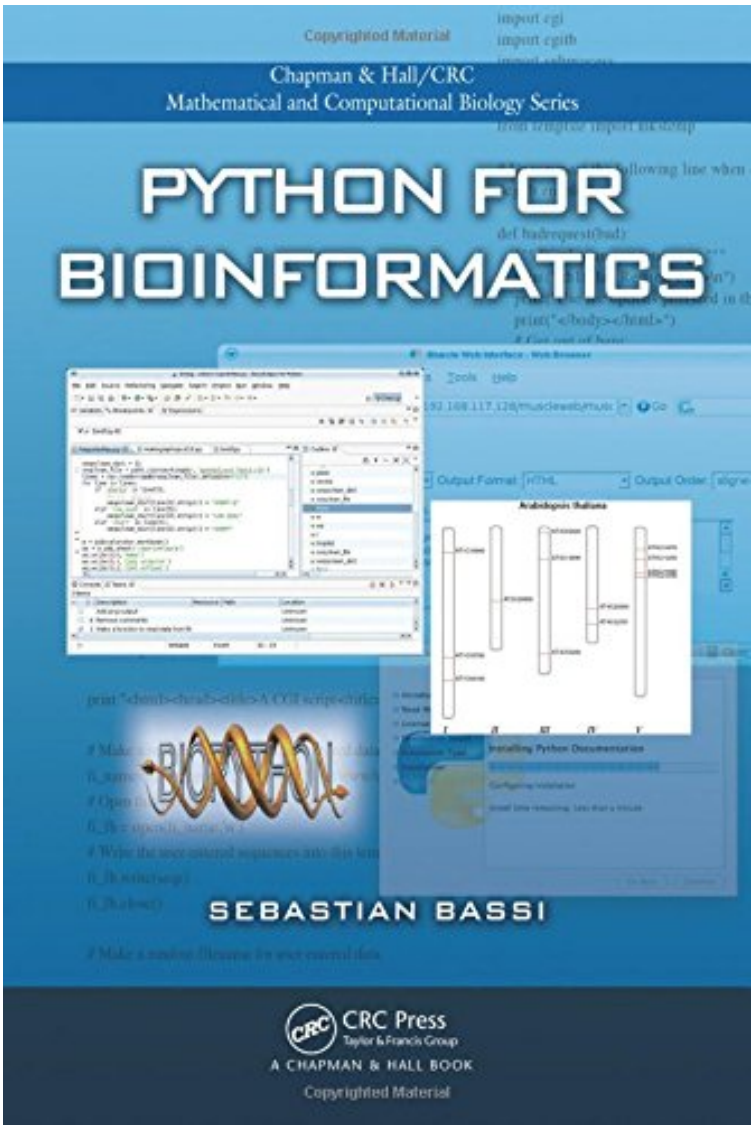

#1206372 in Books Chapman and Hall/CRC 2009-10-02Original language:EnglishPDF # 1 9.00 x 6.00 x 1.25l, 1.90 #File Name: 1584889292587 pages | File size: 37.Mb

Sebastian Bassi : Python for Bioinformatics (Chapman Hall/CRC Mathematical and Computational Biology) before purchasing it in order to gage whether or not it would be worth my time, and all praised Python for Bioinformatics (Chapman Hall/CRC Mathematical and Computational Biology):

0 of 0 people found the following review helpful. Content is great, but edition I bought has typosBy Tragic

CityContent is great, but edition I bought has typos. One of my students complained about the English not being correct. I've noticed other books from CRC seem to be poorly copy-edited. Which is too bad because the authors are often great - experts in their fields.0 of 0 people found the following review helpful. AWESOMEBy nico55this book helped me so much! learning python changed my life. and i would make this required material for any grad level biology student. knowing this language can help with everything. (accept spelling)1 of 1 people found the following review helpful. Good but not greatBy E. FerrisA good introduction to bioinformatics programming and BioPython. Not the clearest explanations and it is filled with typos. A helpful book overall, but not as smooth as it could be.

Programming knowledge is often necessary for finding a solution to a biological problem. Based on the authors 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.

The book will be helpful for its intended audience. Numerous code fragments in the book will be beneficial for biologists who are unfamiliar with programming. Readers can try out, test, and modify the code to suit their needs. a useful introduction to the topic. The style of presentation is good, and the code samples are worthwhile. I strongly recommend this book as a useful reference for computational biologists, programmers, and bioinformatics specialists (students as well as researchers).Computing s, November 2011About the AuthorSebastian Bassi is the leader of the DNALinux bioinformatics distribution and member of the developer team for Biopython. He is currently providing bioinformatics support for the tomato mitochondrial genome sequencing project, which is part of the Latin America Solanaceae Genome Project (LAT-SOL).