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Building Bioinformatics Solutions: With Perl, R And MySQL



Synopsis

Modern bioinformatics encompasses a broad and ever-changing range of activities involved with the management and analysis of data from molecular biology experiments. Despite the diversity of activities and applications, the basic methodology and core tools needed to tackle bioinformatics problems is common to many projects. Building Bioinformatics Solutions provides a comprehensive introduction to this methodology, explaining how to acquire and use the most popular development tools, how to apply them to build processing pipelines, and how to make the results available through visualizations and web-based services for deployment either locally or via the Internet. The main development tools covered in this book are the MySQL database management system, the Perl programming language, and the R language for statistical computing. These industry standard open source tools form the core of many bioinformatics projects, both in academia and industry. The methodologies introduced are platform independent, and all the examples that feature have been tested on Windows, Linux and Mac OS. This advanced textbook is suitable for graduate students and researchers in the life sciences who wish to automate analyses or create their own databases and web-based tools. No prior knowledge of software development is assumed. Having worked through the book, the reader should have the necessary core skills to develop computational solutions for their specific research programmes. The book will also help the reader overcome the inertia associated with penetrating this field, and provide them with the confidence and understanding required to go on to develop more advanced bioinformatics skills.

Book Information

Paperback: 254 pages

Publisher: Oxford University Press; 1 edition (February 28, 2009)

Language: English

ISBN-10: 0199230234

ISBN-13: 978-0199230235

Product Dimensions: 9.6 x 0.5 x 7.4 inches

Shipping Weight: 1.2 pounds

Average Customer Review: 4.1 out of 5 starsÂ Â See all reviewsÂ (8 customer reviews)

Best Sellers Rank: #1,097,272 in Books (See Top 100 in Books) #76 inÂ Books > Computers & Technology > Programming > Languages & Tools > Perl #135 inÂ Books > Computers & Technology > Databases & Big Data > MySQL #278 inÂ Books > Computers & Technology > Computer Science > Bioinformatics

Customer Reviews

This is a great book, I am very satisfied with it. In fact, this book combines the most popular tools in bioinformatics: Perl, R and MySQL. Some of us may be expert for one or two of these tools. But how to systematically use them together, this book gives answers. It also gives direction of how to go further if you want to master one of these tools. Plus, it has a lot of practical examples which you can easily transform for your own work. And I must say the authors are very responsive. They answered my questions promptly and in details. I really appreciate this. Thank you.

I have formal education in Bioinformatics, however applied Bioinformatics is somewhat different. This book is a great stepping stone for those who want to work as Bioinformatics analysts, developers etc.

This book really helps to understand how one can use countless possibilities of modern bioinformatics through publicly available tools. I appreciate the inner logic of the text and accurate description of methods. Authors did a great work! I recommend this book to all biologists, who, like me, want to analyse their data themselves and in efficient way.

This is a very nice bioinformatics book. Concise and touching the point. Covers the very basic and practical skills on developing computational skills on biological question. After reading this book, I'm almost equipped the right tools, skills and directionality for practical research problems and more thoughtful organizations on my database. Highly recommend for everyone!

I'm very satisfied with this book. Very clear explanations and examples. Contains all the relevant chapters that one needs to get into bioinformatics.

This is a very introductory book. It will get you started and up to the point where you can continue by using free info on the internet.

GOOD INTRODUCTORY BOOK. BRIEF INTRO FOR ALL USED COMPUTER LANGUAGES.

I think this is worth it if you have limited experience with programming and do not wish to dig into it more. Personally, I think that it is better to use other excellent books to learn Perl, R, and any databasing language (suggest MariaDB).

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