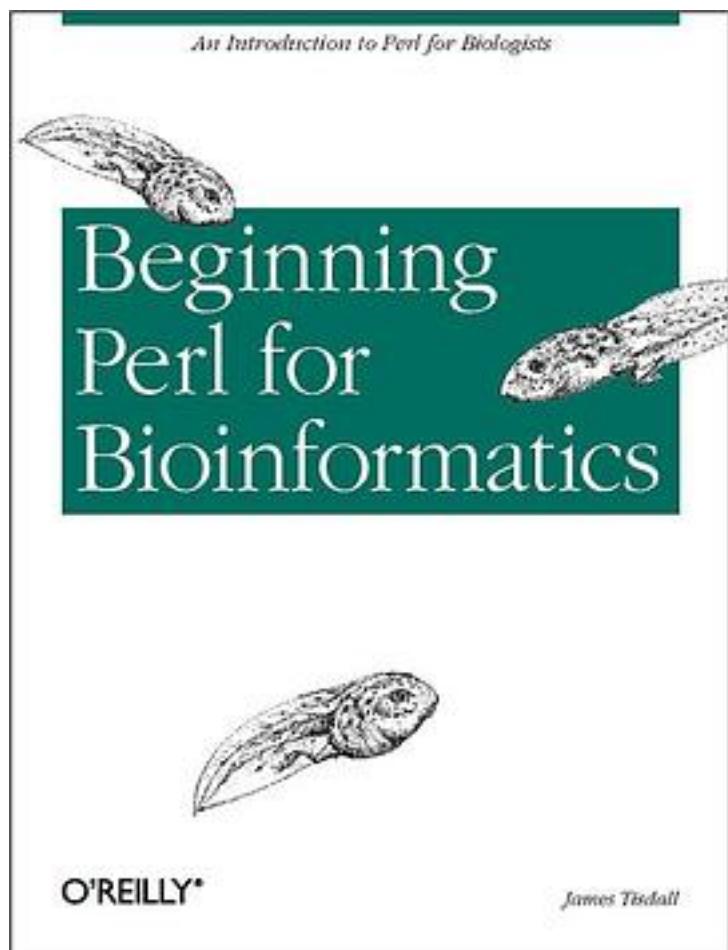


Beginning Perl For Bioinformatics



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With its highly developed capacity to detect patterns in data, Perl has become one of the most popular languages for biological data analysis. But if you're a biologist with little or no programming experience, starting out in Perl can be a challenge. Many

biologists have a difficult time learning how to apply the language to bioinformatics. The most popular Perl programming books are often too theoretical and too focused on computer science for a non-programming biologist who needs to solve very specific problems.

Beginning Perl for Bioinformatics is designed to get you quickly over the Perl language barrier by approaching programming as an important new laboratory skill, revealing Perl programs and techniques that are immediately useful in the lab. Each chapter focuses on solving a particular bioinformatics problem or class of problems, starting with the simplest and increasing in complexity as the book progresses. Each chapter includes programming exercises and teaches bioinformatics by showing and modifying programs that deal with various kinds of practical biological problems. By the end of the book you'll have a solid understanding of Perl basics, a collection of programs for such tasks as parsing BLAST and GenBank, and the skills to take on more advanced bioinformatics programming. Some of the later chapters focus in greater detail on specific bioinformatics topics. This book is suitable for use as a classroom textbook, for self-study, and as a reference.

The book covers:

Programming basics and working with DNA sequences and strings

Debugging your code

Simulating gene mutations using random number generators

Regular expressions and finding motifs in data

Arrays, hashes, and relational databases

Regular expressions and restriction maps

Using Perl to parse PDB records, annotations in GenBank, and BLAST output

作者介绍:

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The Organization of Proteins

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标签

Perl

编程

生物信息学

普通生物学

想学习

O'reilly

评论

很好的perl入门读物。。现在的问题还是缺乏练习啊。。。

A nice books. Tough time reading Perl 5. This book fits me well, the object oriented teaching

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书评

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