Beginning Perl for Bioinformatics







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Beginning Perl for Bioinformatics James Tisdall, 2001 This book shows biologists with little or no programming experience how to use Perl the ideal language for biological data analysis Each chapter focuses on solving a particular problem or class of problems so you ll finish the book with the skills to tackle more advanced bioinformatics programming Dr. Dobb's Journal ,2002 Mastering Perl for Bioinformatics James Tisdall, 2003-09-25 Historically programming hasn t been considered a critical skill for biologists But now with access to vast amounts of biological data contained in public databases programming skills are increasingly in strong demand in biology research and development Perl with its highly developed capacities in string handling text processing networking and rapid prototyping has emerged as the programming language of choice for biological data analysis Mastering Perl for Bioinformatics covers the core Perl language and many of its module extensions presenting them in the context of biological data and problems of pressing interest to the biological community This book along with Beginning Perl for Bioinformatics forms a basic course in Perl programming This second volume finishes the basic Perl tutorial material references complex data structures object oriented programming use of modules all presented in a biological context and presents some advanced topics of considerable interest in bioinformatics The range of topics covered in Mastering Perl for Bioinformatics prepares the reader for enduring and emerging developments in critical areas of bioinformatics programming such as Gene finding String alignment Methods of data storage and retrieval SML and databases Modeling of networks graphs and Petri nets Graphics Tk Parallelization Interfacing with other programming languages Statistics PDL Protein structure determination Biological models of computation DNA Computers Biologists and computer scientists who have conquered the basics of Perl and are ready to move even further in their mastery of this versatile language will appreciate the author's well balanced approach to applying Perl's analytical

Sciences Pakistan Academy of Sciences,2003 The British National Bibliography Arthur James Wells,2003 The Publishers Weekly,2001 Beginning Perl for Bioinformatics James D. Tisdall,1991 Beginning Perl For Bioinformatics James Tisdall,2001-01-01 Discusses the ties between biology and computer science how to program basic PERL programming concepts and how to use PERL to perform tasks including analyzing genetic codes 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

abilities to the field of bioinformatics Full of practical examples and real world biological problem solving this book is a must

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for any reader wanting to move beyond beginner level Perl in bioinformatics

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