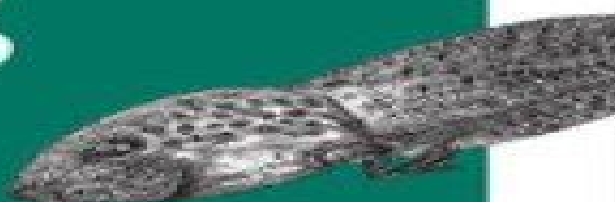


An Introduction to Perl for Biologists



Beginning Perl for Bioinformatics



O'REILLY®

James Tisdall

Beginning Perl For Bioinformatics

David Scott



Beginning Perl For Bioinformatics:

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

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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 abilities to the field of bioinformatics Full of practical examples and real world biological problem solving this book is a must for any reader wanting to move beyond beginner level Perl in bioinformatics *Perl for Bio Informatics I* David Scott, 2013-01-07 Go from scripts to functions to programs Learn bio programming with the Perl development paradigm Learn to write tested documented object oriented code the Perl way [Handbook of Hidden Markov Models in Bioinformatics](#) Martin Gollery, 2008-06-12

Demonstrating that many useful resources such as databases can benefit most bioinformatics projects the Handbook of

Hidden Markov Models in Bioinformatics focuses on how to choose and use various methods and programs available for hidden Markov models HMMs The book begins with discussions on key HMM and related profile methods incl **Building Bioinformatics Solutions 2nd Edition** Conrad Bessant,Darren Oakley,Ian Shadforth,2014 This book introduces the reader to all the key concepts and technologies needed to begin developing their own bioinformatics tools The new edition includes more bioinformatics specific content and a new chapter on good software engineering practices to help people working in teams

Beginning Programming All-in-One Desk Reference For Dummies Wallace Wang,2011-02-08 The fun fast and easy way to learn programming fundamentals and essentials from C to Visual Basic and all the languages in between So you want to be a programmer Or maybe you just want to make your computer do what YOU want for a change Maybe you enjoy the challenge of identifying a problem and solving it If programming intrigues you for whatever reason Beginning Programming All In One Desk Reference For Dummies is like having a starter programming library all in one handy if hefty book In this practical guide you ll find out about algorithms best practices compiling debugging your programs and much more The concepts are illustrated in several different programming languages so you ll get a feel for the variety of languages and the needs they fill Inside you ll discover seven minibooks Getting Started From learning methods for writing programs to becoming familiar with types of programming languages you ll lay the foundation for your programming adventure with this minibook Programming Basics Here you ll dive into how programs work variables data types branching looping subprograms objects and more Data Structures From structures arrays sets linked lists and collections to stacks queues graphs and trees you ll dig deeply into the data Algorithms This minibook shows you how to sort and search algorithms how to use string searching and gets into data compression and encryption Web Programming Learn everything you need to know about coding for the web HyperText Markup Language better known simply as HTML CSS JavaScript PHP and Ruby Programming Language Syntax Introduces you to the syntax of various languages C C Java C Perl Python Pascal Delphi Visual Basic REALbasic so you know when to use which one Applications This is the fun part where you put your newly developed programming skills to work in practical ways Additionally Beginning Programming All In One Desk Reference For Dummies shows you how to decide what you want your program to do turn your instructions into machine language that the computer understands use programming best practices explore the how and why of data structuring and more And you ll get a look into various applications like database management bioinformatics computer security and artificial intelligence After you get this book and start coding you ll soon realize that wow You re a programmer

XML for Bioinformatics Ethan Cerami,2006-06-02 Introduction The goal of this book is to introduce XML to a bioinformatics audience It does so by introducing the fundamentals of XML Document Type Definitions DTDs XML Namespaces XML Schema and XML parsing and illustrating these concepts with specific bioinformatics case studies The book does not assume any previous knowledge of XML and is geared toward those who want a solid introduction to fundamental XML concepts The book is divided into nine

chapters Chapter 1 Introduction to XML for Bioinformatics This chapter provides an introduction to XML and describes the use of XML in biological data exchange A bird s eye view of our rst case study the Distributed Annotation System DAS is provided and we examine a sample DAS XML document The chapter concludes with a discussion of the pros and cons of using XML in bioinformatic applications Chapter 2 Fundamentals of XML and BSML This chapter introduces the fundamental concepts of XML and the Bioinformatic Sequence Markup Language BSML We explore the origins of XML de ne basic rules for XML document structure and introduce XML Na spaces We also explore several sample BSML documents and visualize these documents in the TM Rescentris Genomic Workspace Viewer

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