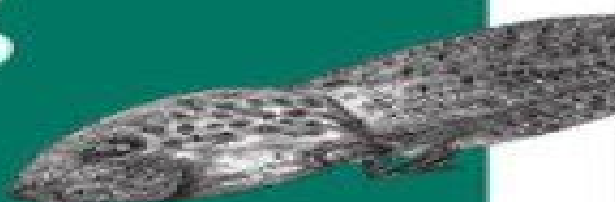


*An Introduction to Perl for Biologists*



# Beginning Perl for Bioinformatics



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## **Beginning Perl For Bioinformatics:**

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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

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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

**The Internet for Molecular Biologists** Clare E. Sansom, Robert M. Horton, 2004-01-29 The last few decades of the twentieth century will be remembered for two technological revolutions that have already had a profound effect on millions of people's lives Thanks to communication technologies and particularly the Internet we now take immediate access to enormous quantities of information for granted And thanks to the new biology building on the genome projects some scientists are predicting that cures for the majority of known diseases could be readily available within two generations These two revolutions are inextricably linked molecular biology depends on the ready availability of data and that needs computers and the Internet There are some surprising parallels between developments in the two technologies For example the publicly available gene sequence databases EMBL and GenBank are doubling in size approximately every eighteen months According to Moore's Law which has held since the invention of the silicon chip eighteen months is also the time frame in which computer power is expected to double This book aims to help the practitioners of the second revolution molecular biologists who are more at home at a laboratory bench than in front of a computer keyboard to use the technology of the first the Internet more effectively The Internet For Molecular Biologists A Practical Approach provides a broad introduction to using Internet based computing resources to support research in molecular biology After surveying the core databases and other online resources the focus shifts to tools and techniques for exploiting and authoring Internet distributed information Later chapters provide detailed examples of how technologies such as molecular visualisation VRML and XSLT can be applied to biological problems

**Basic Bioinformatics** S. Ignacimuthu, 2005 This book is intended to give the basics of biological concepts biological database and internet based bioinformatic tools We are hopeful that this book will cater to the immediate needs of students researchers faculty members and pharmaceutical industries Pref

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