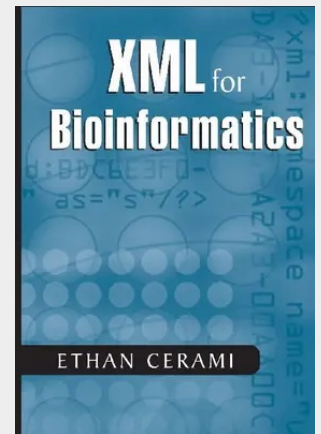


XML for Bioinformatics

XML for Bioinformatics aims to provide biologists, software engineers, and bioinformatics professionals with a comprehensive introduction to XML and current XML applications in bioinformatics. The book will assume no background in XML, and take readers from basic to intermediate XML concepts. Core topics will include: fundamentals of XML, creating XML grammars, web services via SOAP, and parsing XML documents in Perl and Java.

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 first 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, define basic rules for XML document structure, and introduce XML Namespaces. We also explore several sample BSML documents and visualize these documents in the TM Rescentris Genomic Workspace Viewer.



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