

PYTHON FOR BIOINFORMATICS

SECOND EDITION

In today's data driven biology, programming knowledge is essential in turning ideas into testable hypotheses. Based on the author's extensive experience, **Python for Bioinformatics, Second Edition** helps biologists come to grips with the basics of software development. Requiring no prior knowledge of programming-related concepts, the book focuses on the easy-to-use, yet powerful, Python computer language.

This new edition is updated throughout to Python 3 and is designed not just to help scientists master the basics, but to do more in less time and in a reproducible way. New developments added in this edition include NoSQL databases, the Anaconda Python distribution, graphical libraries like Bokeh, and the use of GitHub for collaborative development.

Features

- Provides a solid introduction to programming with Python, making the book accessible for readers without previous programming experience
- Covers advanced topics, such as web applications with Bottle, databases (MySQL, SQLite and MongoDB), XML and Bokeh
- Contains ready-to-use code applicable to real-world biological problems
- All code included in this book available in a companion GitHub repository and can be run online in PythonAnywhere and in a cloud-based Jupyter Notebook.



CRC Press
Taylor & Francis Group
an informa business
www.crcpress.com

6000 Broken Sound Parkway, NW
Suite 300, Boca Raton, FL 33487
711 Third Avenue
New York, NY 10017
2 Park Square, Milton Park
Abingdon, Oxon OX14 4RN, UK

K31695

ISBN: 978-1-138-03526-3

90000



9 781138 035263

www.crcpress.com