



# Understanding UNIX/LINUX Programming: A Guide to Theory and Practice

By Bruce Molay

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## Understanding UNIX/LINUX Programming: A Guide to Theory and Practice By Bruce Molay

This book explains in a clear and coherent manner how Unix works, how to understand existing Unix programs, and how to design and create new Unix programs. The book is organized by subsystem, each presented in visual terms and explained using vivid metaphors. It breaks the information into manageable parts that can be presented, explained, and mastered. By using case studies and an extremely reader-friendly manner to illustrate complex ideas and concepts, the book covers the basics of systems programming, users, files and manuals, how to read a directory, using LS, writing PWD, studying STTY, writing a video game, studying SH, environment and shell variables, I/O redirection and pipes, servers and sockets, writing a web server, license servers, and concurrent functions. For Unix system administrators and programmers, network programmers, and others who have used other operating systems and need to learn Unix programming to expand their skill sets.

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### Editorial Review

#### Review

"The material covered goes to the right depth to allow students to understand the UNIX operating system to program it. I wish a book of this calibre was available during my graduate studies as it would have helped me tremendously in learning to program the UNIX system." — Sam R. Thangiah, *Slippery Rock University*

"This text is one of the most accurate and articulate that I have read. It is easily readable." — Lawrence B. Wells, *Dallas County Community College*

#### From the Back Cover

*Understanding Unix®/Linux Programming* explains how Unix and Linux work and shows how to write, programs at the system call level. Using nearly 100 complete programs and over 200 illustrations, the book demonstrates the basics as well as the advanced aspects of Unix systems programming.

#### Topics include:

- file I/O
- device I/O
- timers
- process management
- stream and datagram sockets
- POSIX threads
- file systems
- the terminal driver
- signals
- pipes
- network programming
- semaphores

The text presents theory in practical contexts with detailed explanations of common Unix programs such as *who*, *ls*, *pwd*, *sh*, and *httpd*. Each example starts with a description of what the program does and how people use it. From there, the text discusses the underlying principles and mechanisms, and then uses those ideas to write a version of the program.

The book is designed for learning. Chapter summaries, memorable analogies, experiments, explorations, and varied exercises help the reader understand and program Unix as an integrated, logical whole.

Material in the book applies to all versions of Unix and Linux. The book assumes the reader knows the C

programming language and is familiar with a modern operating system. The book is suitable as a class text, for self-study, and for reference, and it provides thorough coverage of information essential to students, Unix programmers, and system administrators.

## About the Author

**Bruce Molay**, an award-winning teacher at Harvard and an independent software developer for over two decades, has combined his two passions of masterly teaching and Unix programming in this book.

## Users Review

### From reader reviews:

#### **George Carter:**

Often the book Understanding UNIX/LINUX Programming: A Guide to Theory and Practice will bring that you the new experience of reading the book. The author style to explain the idea is very unique. Should you try to find new book to study, this book very ideal to you. The book Understanding UNIX/LINUX Programming: A Guide to Theory and Practice is much recommended to you to study. You can also get the e-book from the official web site, so you can quickly to read the book.

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