

Applied Math, Life, Germany

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Contents

Introduction	2
Unix, Linux, POSIX, and Beyond	3
Abbreviations and Acronyms	4
References(Websites)	5
Unix, Linux, POSIX, and Beyond	5
My Horsemen of the Apocalypse	5
References(Books)	6
Unix, Linux, POSIX, and Beyond	6
Calculus	6

Introduction

Explain the reasons that motivated you to start writing a book:-)

Unix, Linux, POSIX, and Beyond

Nowadays an applied mathematicians must utilize a computer in order to handle their workflow. Computers must have an operating system(OS) and that is set in the stone. As to what OS is optimal, there are no clear answers obviously. Every OS has its pros and cons. I adopted the Unix-like(Unix, Linux, POSIX) OSs for now as I meticulously observed my mentors during my college years and still continue to do so. This chapter tries to help you determine whether you would benefit from those OSs too and if yes formulate a guideline for its learning process.

Abbreviations and Acronyms

- ASCII: American Standard Code for Information Interchange
- GNU: GNU's Not Unix
- pip: Pip Installs Packages

References(Websites)

Unix, Linux, POSIX, and Beyond

- <https://www.lpi.org/>
- <https://learning.lpi.org/en/learning-materials/learning-materials/>
- <https://wiki.archlinux.org/>
- <https://git-scm.com/>
- <https://about.gitlab.com/>
- <https://github.com/>
- <https://www.linuxfromscratch.org/>
- <https://distrowatch.com/>

My Horsemen of the Apocalypse

- Hardware: [Apple](#)
- An Online Linux Terminal Emulator: [JSLinux](#)
- Hypervisor: [VirtualBox](#), [UTM](#)
- OS: [Darwin](#)
- Package Manager: [brew](#)
- Terminal Emulator: [kitty](#) or [Alacritty](#)
- Interactive Shell: [zsh](#) Scripting Shell: [bash](#)
- Zsh Configuration Framework: [ohmyzsh](#)
- Terminal Text Editor: [vim](#) GUI Text Editor: [Visual Studio Code](#)
- Terminal Multiplexer: [tmux](#)
- Modern Linux Tools: [Modern Linux](#)

References(Books)

Unix, Linux, POSIX, and Beyond

- LPI Linux Essentials [pdf](#)
- LPI Web Development Essentials [pdf](#)
- LPI LPIC-1 Exam 101 [pdf](#)
- LPI LPIC-1 Exam 101 [pdf](#)
- The LPIC2 Exam Prep [pdf](#)
- Practical LPIC-3 300 [Link](#)
- Pro GIT [pdf](#)

Calculus

- Calculus With Applications by Peter D. Lax , Maria Shea Terrell [Link](#)
- Multivariable Calculus with Applications by Peter D. Lax , Maria Shea Terrell [Link](#)