

# Mac Command Line Interface with Terminal, An Introduction

OMUG

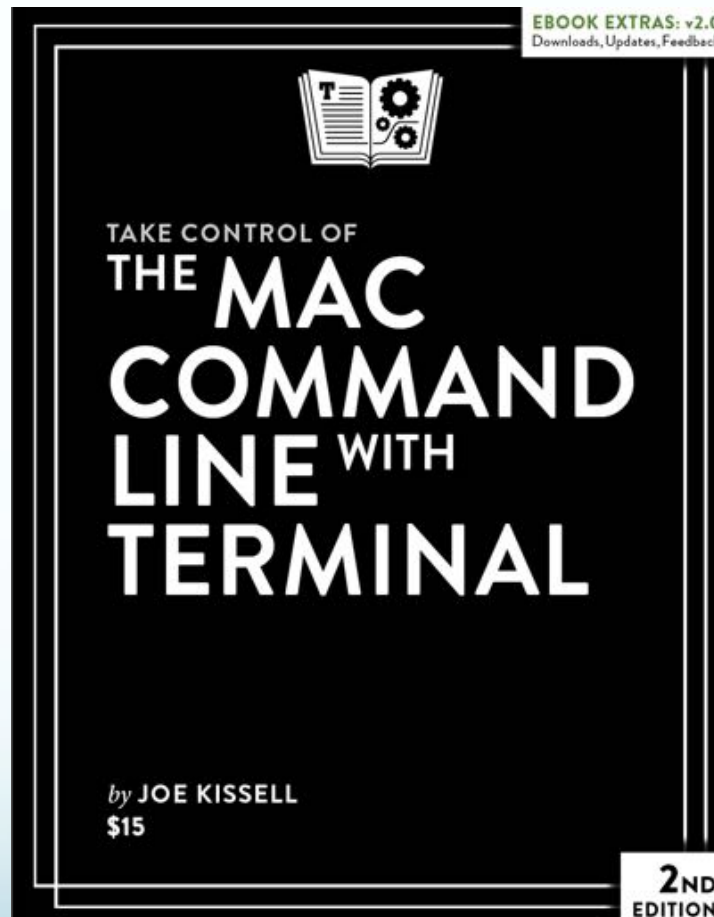
14 July 2015

Bob Adams

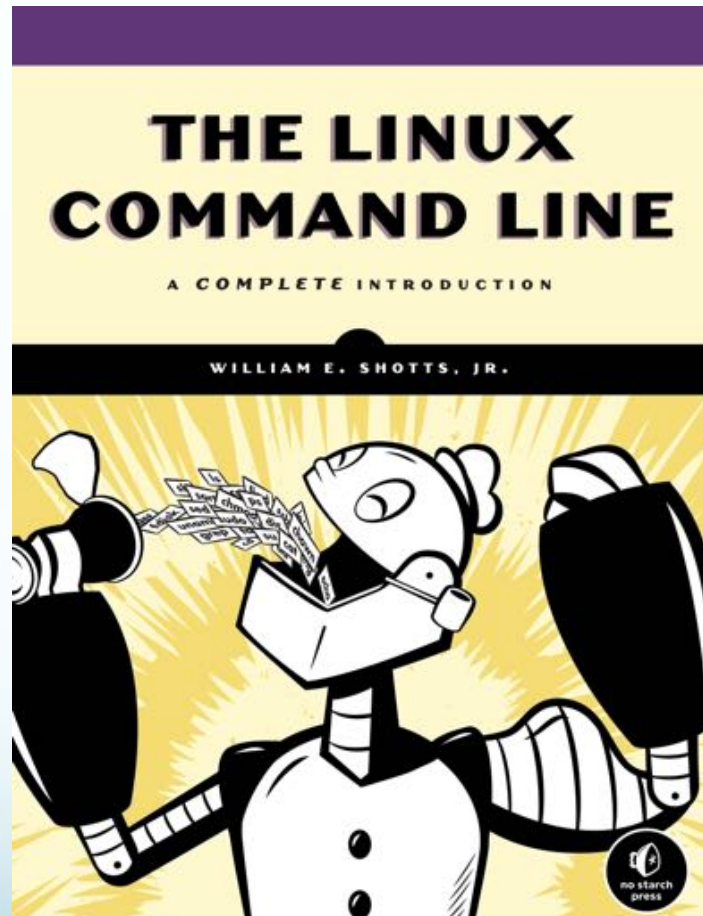
# Reference

- TCO The Mac Command Line with Terminal Version 2.0 2 Ed. by Joe Kissell
- The Linux Command Line a Complete Introduction, 2<sup>nd</sup>. Edition by William Shotts, Jr.
- Macintosh Terminal Pocket Guide by Daniel Barrett

# TCO The Mac Command Line with Terminal Version 2.0 2 Ed. by Joe Kissell

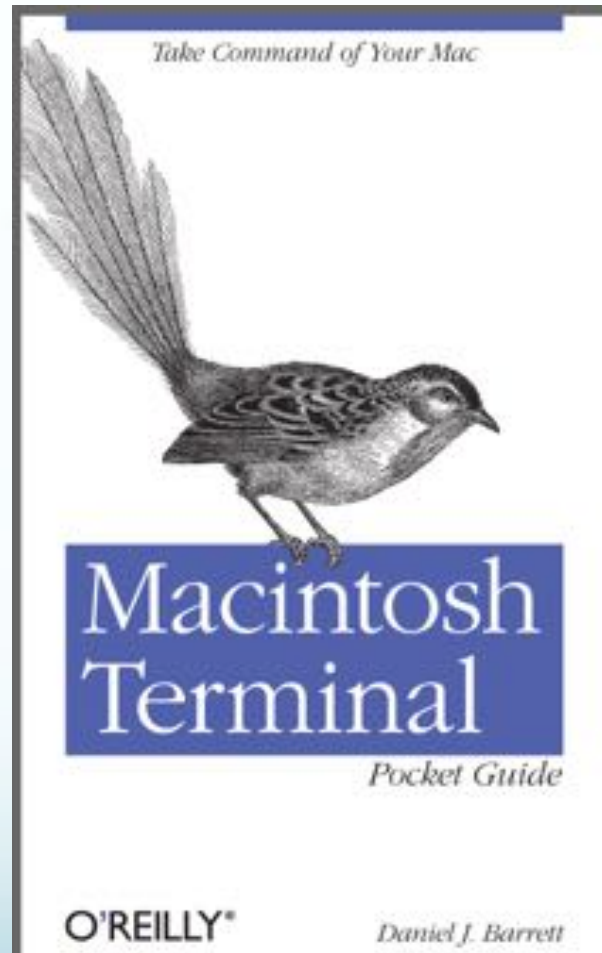


# The Linux Command Line a Complete Introduction, 2<sup>nd</sup>. Edition by William Shotts, Jr.



# Macintosh Terminal Pocket Guide

by Daniel Barrett



# A Little Background..

- 1969 Ken Thompson and Dennis Ritchie at Bell Labs develop a machine independent OS named UNIX. A new programming language, “C” and a “compiler” to convert source code to machine code that could run on many machines.
- UNIX was supported by the academic community, especially University of California at Berkeley, a BSD version released in 1977.
- DARPA liked and supported the BSD version and integrated it into their Wide Area Network (APRANet), and in 1983 started using TCP/IP on ARPANet and the Internet was born.
- 1985 Steve Jobs leaves Apple to start NeXT Computing and the NeXTSTEP OS built on BSD UNIX.
- 1996 Apple buys NeXT Computing and Steve Jobs, the NeXTSTEP OS and Terminal and return to Apple. What followed was Mac OS X.
- The Command Line Interface and its access program Terminal have been a part of Unix and now Mac OS X for over 45 years.

# Why Use Terminal

- Introduction
- Can't Do Everything in a GUI
- The Terminal ... It is Free
- The Basics...
- Learn and be Careful in the Beginning

# How the Terminal Works

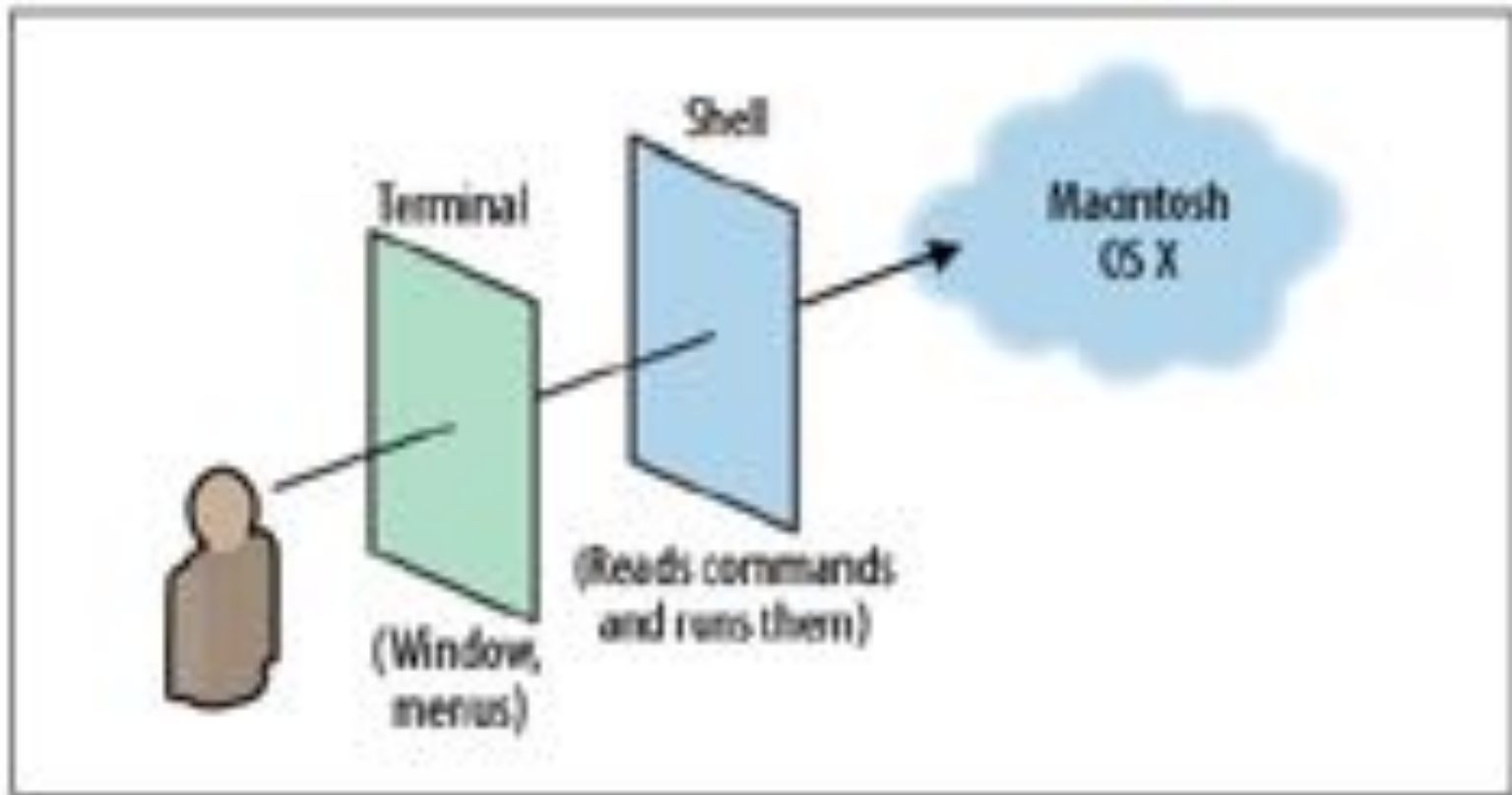


Figure 1-1. Viewing OS X through the Terminal and the shell



# Basics...

- What's Unix
- What's a Command Line
- What's a Shell
- What's a Terminal
- What are Commands, Arguments, and Flags
  - Commands
  - Arguments
  - Flags

# The Terminal



# Demos

- Finding and Opening a Terminal (Session)
- Put a Terminal Icon on the Dock
- Wait for it...the Prompt
- Some Simple Commands to Start...
  - `cal jul 2015`
  - `ls /Applications`
  - `ls $HOME/Documents | wc -l`
  - `df -h /`
  - `last -1 last $USER`
  - `ipconfig getifaddr en0 or 1`
  - `whois google.com | less`
  - `sudo rm -rf ~/.Trash/`

# Printing from an iDevice to a Wireless Printer

-AirPrint is an Apple technology that helps you create full-quality printed output without the need to download or install drivers.

If your wireless printer isn't AirPrint enabled...