



# The Power Of Bash

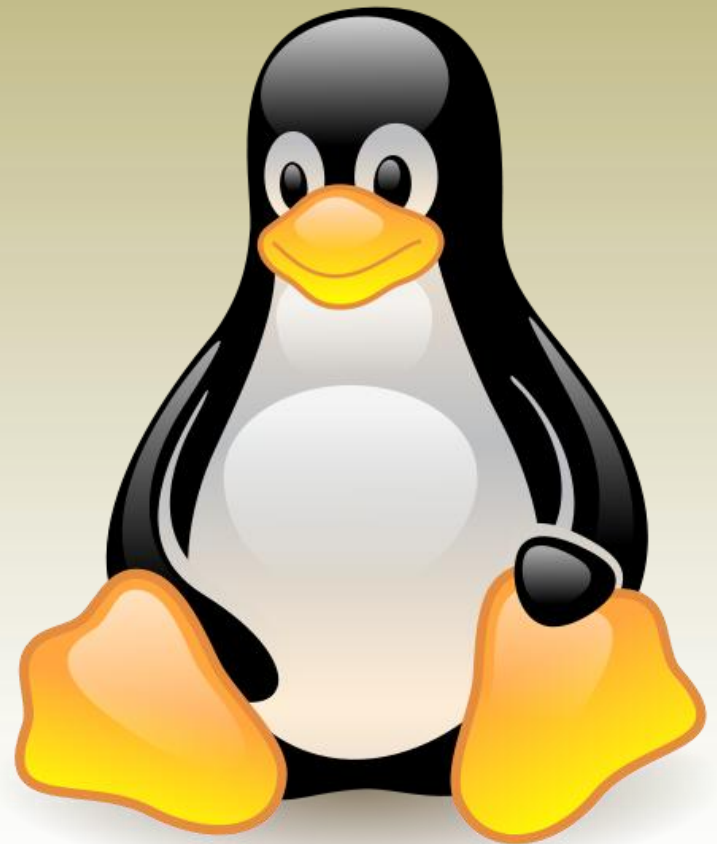
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Date: 09/09/09



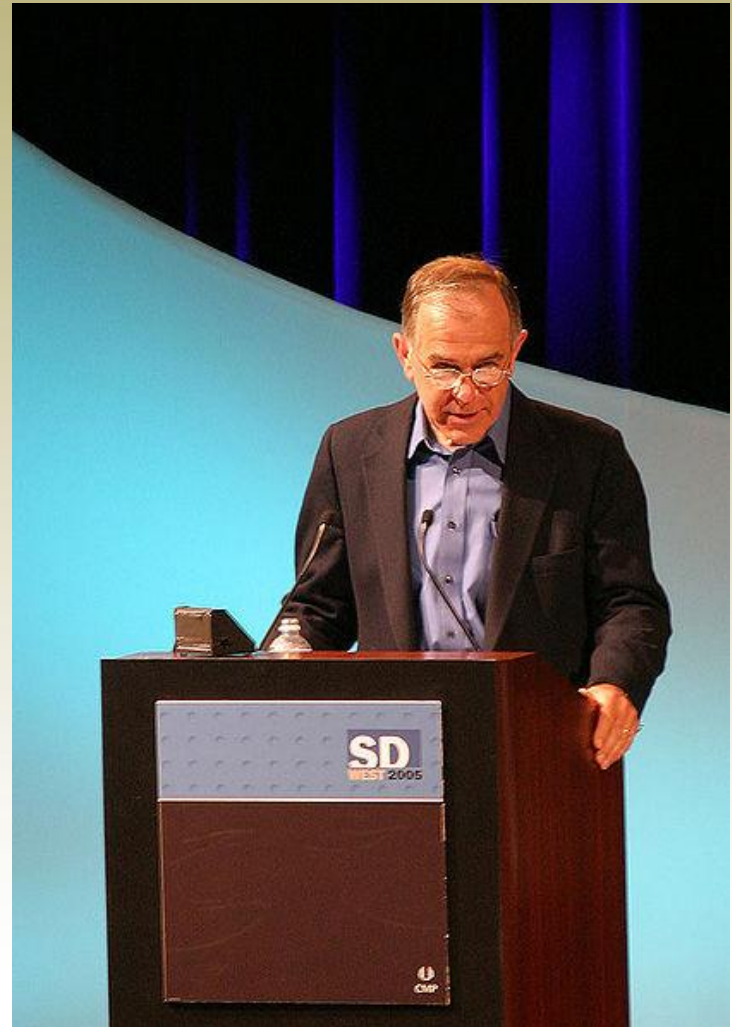
# Purpose

- **Very Light**
- Overview Of Bash
- Benefits Of Bash
  - Exposure To Scripting
  - Influence Use Of Bash



# History: In The Beginning

- Stephen Bourne 1977
- Not V5 but VII
- Thompson Shell
- Significant Improvements:
- Loops
- Command substitution
- No limit string lengths
- Control over i/o 2> for instance



# History: In the End



- Brian Fox 1987
- More Features:
- Brace expansion (echo h{a,i,o,u}t)
- C Shell Features
- Korn Shell Features
- \$PPID
- \$RANDOM
- Command Line completion
- History



# Terminal/CLI

- Command Line Interface (CLI)
- Tell about the typical weather patterns in your country throughout the calendar year.
- Cd
- pwd
- Ls
- History
- mkdir/rmdir
- Cat
- head/tail

```
SELECT MODULE

A) AEXMODEM
B) BINARY2
Y) YMODEM
Z) ZMODEM
U) UT220
Q) QUIT

Enter (A,B,Y,Z,U,Q) --> █
```



# Now The Fun Happens!

- Scripting
- Repetitive, Annoying, Tasks
- What can it do?
- Get my external IP
- Check if program exists
- Switch desktop
- Play music
- Download information
- Convert file formats
- Rules:
  - (NOT SET IN STONE)
  - In order Top To Bottom
  - Every line is a statement
  - Every statement begins with a program name or function name
  - You can do in a bash script everything you can do in bash
  - It is like any other programming language (functions, variables, control structures etc.)





# Easy Examples

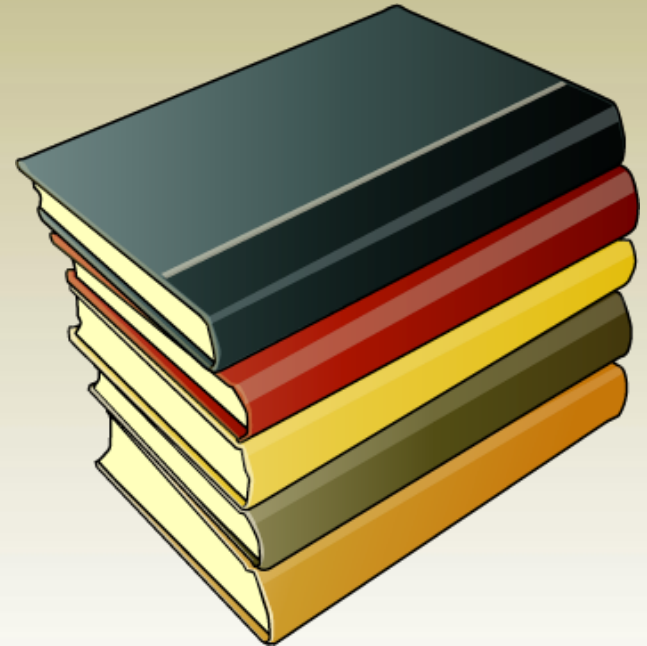
- Hello World
- Nth Line Simple
- Nth Line Generalized
- extractsecond





# Harder Example

- Amazon rates books
- Stars is a program that gives you the a book's rating from the terminal
- Lets Trace Stars







# Questions?

- Are there any questions?

## Further Resources:

- The Linux Documentation Project
- <http://en.tldp.org/HOWTO/Bash-Prompt-HOWTO/>
- <http://tldp.org/LDP/abs/html/>

