



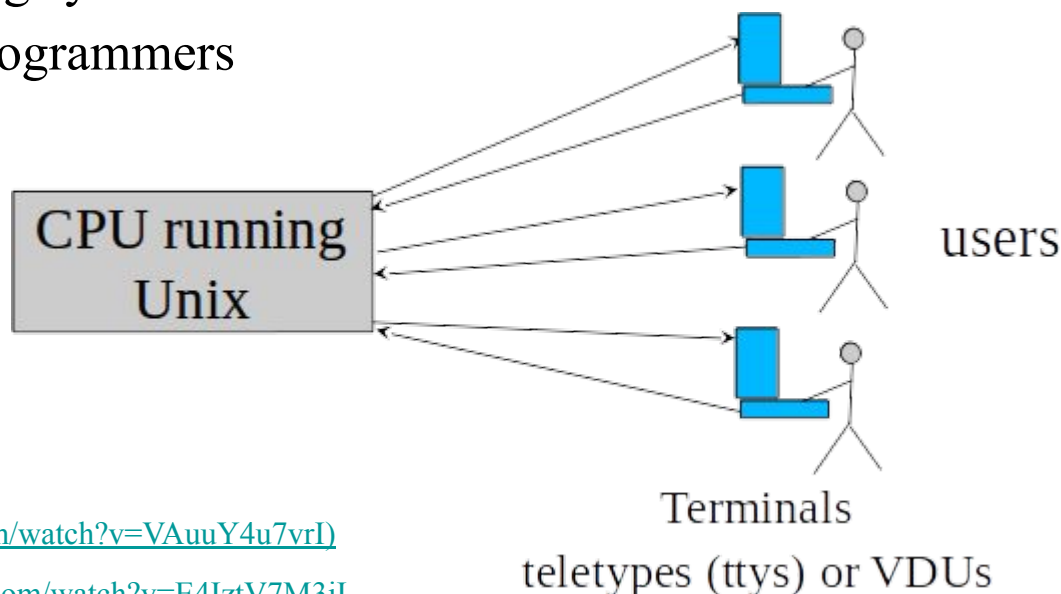
Don't bash bash

A quick look at the *bash* shell

History of Unix

See www.levenez.com/unix for *real* detail!

- 1971. Unix version 1 released within Bell Labs.
 - Main developers: Ken Thompson, Dennis Ritchie
 - Written in high level language B.
 - A time-sharing system
 - For use by programmers



ASR33 (<https://www.youtube.com/watch?v=VAuuY4u7vrI>)

PHP 11/40 (<https://www.youtube.com/watch?v=E4IztV7M3jI>)

History of Unix (cont'd)

- 1972-1976. Versions 1 – 6 in Bell Labs
 - Versions 3 onwards written in C, a derivative of B, a stripped down BCPL (Basic Combined Prog. Language)
- 1976 – 1991. A plethora of Unices
 - BSD, SCO Unix, Irix, HP-UX, AIX, Solaris, ...
- 1985. The GNU Manifesto published
 - Richard Stallman's project to develop a freely distributable Unix. Led to Free Software Foundation (FSF)
- 1988 MIT release X-windows system (X11 release 2)

History of Unix (cont'd)

- 1991. Linux version 0.01
 - “Hello everybody out there using minix. I'm doing a (free) operating system (just a hobby, won't be big and professional like gnu) for 386(486) AT clones”. -- Linus Torvalds, posting to comp.os.minix newsgroup, 1991.
- 1991....
 - “And the rest is history ...”

In fairness to Richard Stallman, Linux really should be called GNU/Linux.



bash - the Bourne-again shell

Accepts commands of the form:

```
cmd -o1 -o2 --long1 --long2 file1 file2 ... <inputfile >outputfile
```

Short-format
options

Long-format
options

Files to
process

Redirection
of stdin

Redirection
of stdout

Command or
file to execute



Some useful commands

info	Get info on a command (a sometimes-useful alternative to man)
ls	List specified directory/files (default: current directory)
cd	Change current directory
cp	Copy files
mv	Move (or rename) files
rm	Remove files (careful! No prisoners taken)
mkdir	Make a new directory
rmdir	Remove a directory
less	Display the contents of a file
set	Set an environment variable (affects subsequent commands)
man	Display a man page
apropos	Search the manual for a keyword (same as <code>man -k</code>)
vim	In-terminal editor ("VI-iMproved"). You'll hate it.
gcc	Run the GNU C compiler (see later)