possible.lv

IT security services

Mastering Bash for Hackers: Extreme Command-Line Power



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whoami

Founder and lead researcher at
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https://kirils.org/

Hobbies :)
Network flow analysis & RE

Kirils Solovjovs
bash expert

imagecrop-interactive

- My most recent ‘tool’ that I wrote Oct 2025
  - GIMP
  - vs gthumb
  - vs gthumb with keyboard shortcuts
  - vs imagemagick
  - vs imagecrop-interactive



imagecrop-interactive

- And of course, getting offsets for scripting!
  - Extracted images from a GoPro [..] but many images have weird artifacts [..] is there a fix somewhere?



Source: @richlv@mastodon.social

imagecrop-interactive

- ```
  for x in *.png; do
  convert $x  \(
   input.png -gravity east
  -crop 320x0+0+0 +repage \)
  -geometry +52+0
  -composite -gravity east
  -crop +52+0 +repage
  out-$x; done
  ```



Source: @richlv@mastodon.social
  ```

UNIX philosophy (ext., excerpt.)

- Write programs that do one thing and do it well.
- Write programs to handle text streams, because that is a universal interface.
- Write programs to work together.
- When a program has nothing surprising to say, it should say nothing.

Source: https://cscie2x.dce.harvard.edu/hw/ch01s06.html

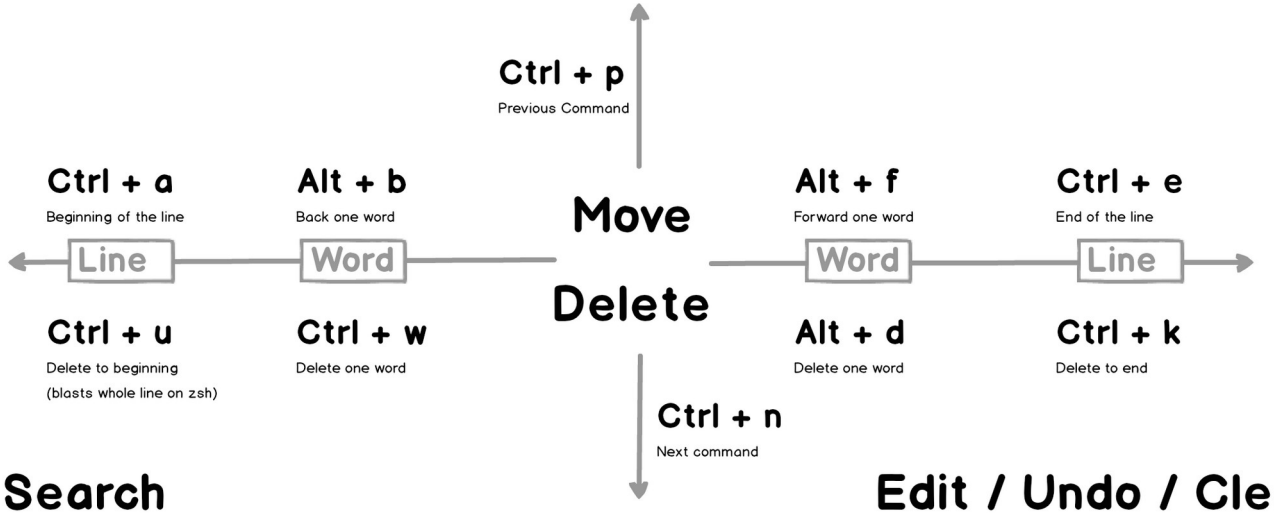


Bash

- Command Line **Interface**
- Installed by default on most UNIX systems
- Allows for networking, file system access, process control etc.



Typing @ prompt



Search

Ctrl + r Search Backwards

Ctrl + s Search Forwards

Ctrl + g Cancel

←, → Edit

Edit / Undo / Clear

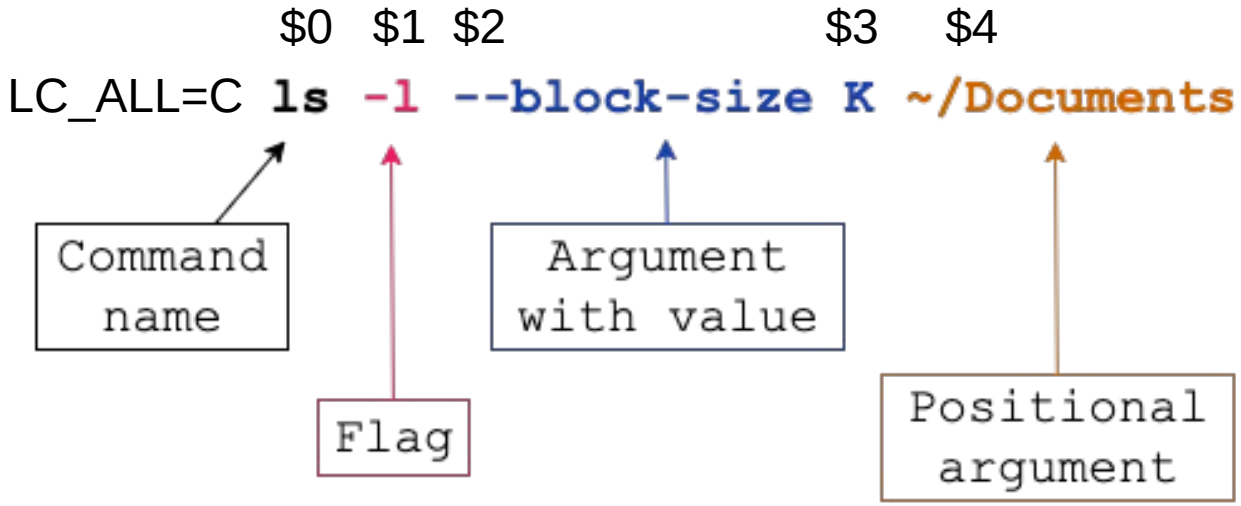
Ctrl + x,e Edit

Ctrl + l Clear

Cltr + - Undo

Credit: effective-shell.com

Command line



Credit: betterdev.blog



How is this organized

Starting off easy

- cmdchallenge.com



Clean machine

- packages:
  - progress
  - whois
  - php-cli
  - file
  - git
  - ??





Let’s play!

Download here

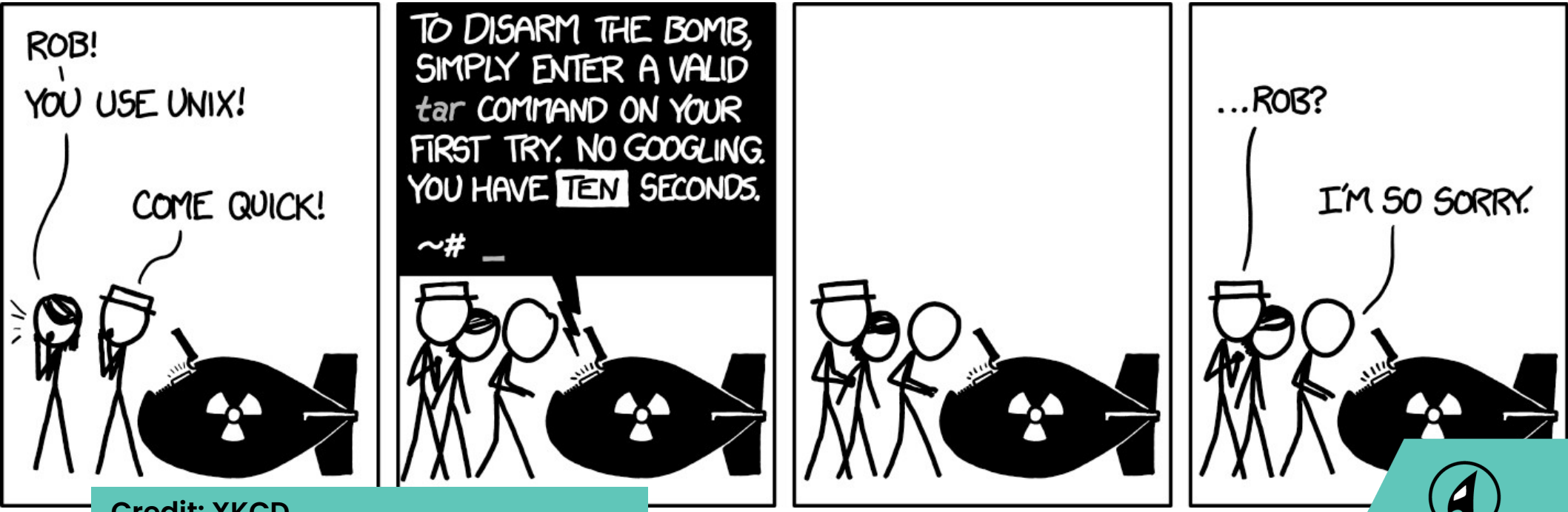
- https://02.lv/f/2025/10/05/tasks_bash.tgz

- and here
  https://github.com/0ki/shellscripts

- and here
  https://github.com/0ki/presentation-toolkit



Download here



Credit: XKCD

Task: access-A

- feel the file
- how many log entries?
- who is connecting?
- what response codes?





That’s all folks!

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