



possible.lv

IT security services

Mastering Bash for Hackers: Extreme Command-Line Power

BsidesLux 2026-05-06



whoami

Founder and lead researcher at
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Mg. sc. comp., Mg. phys.

<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?

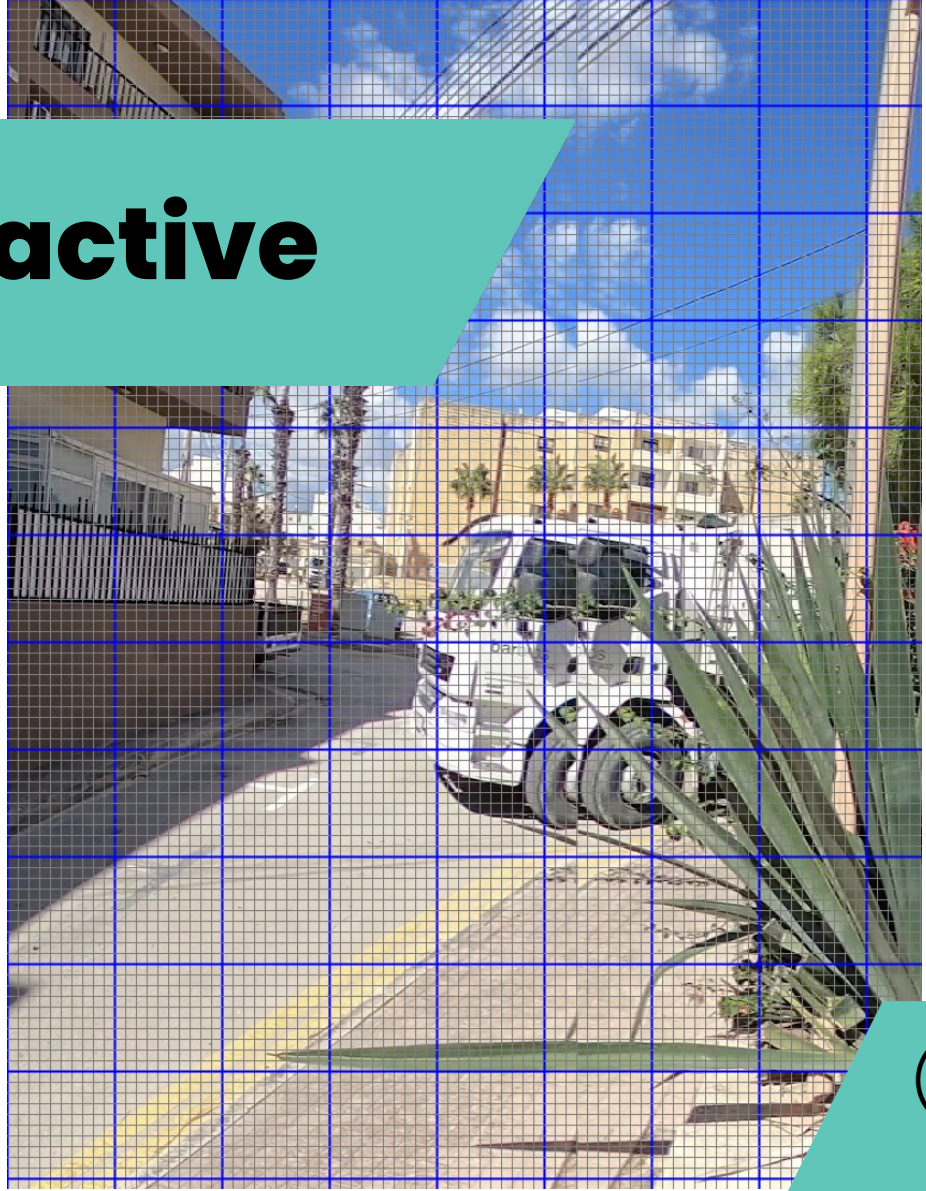
Source: @richlv@mastodon.social



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

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

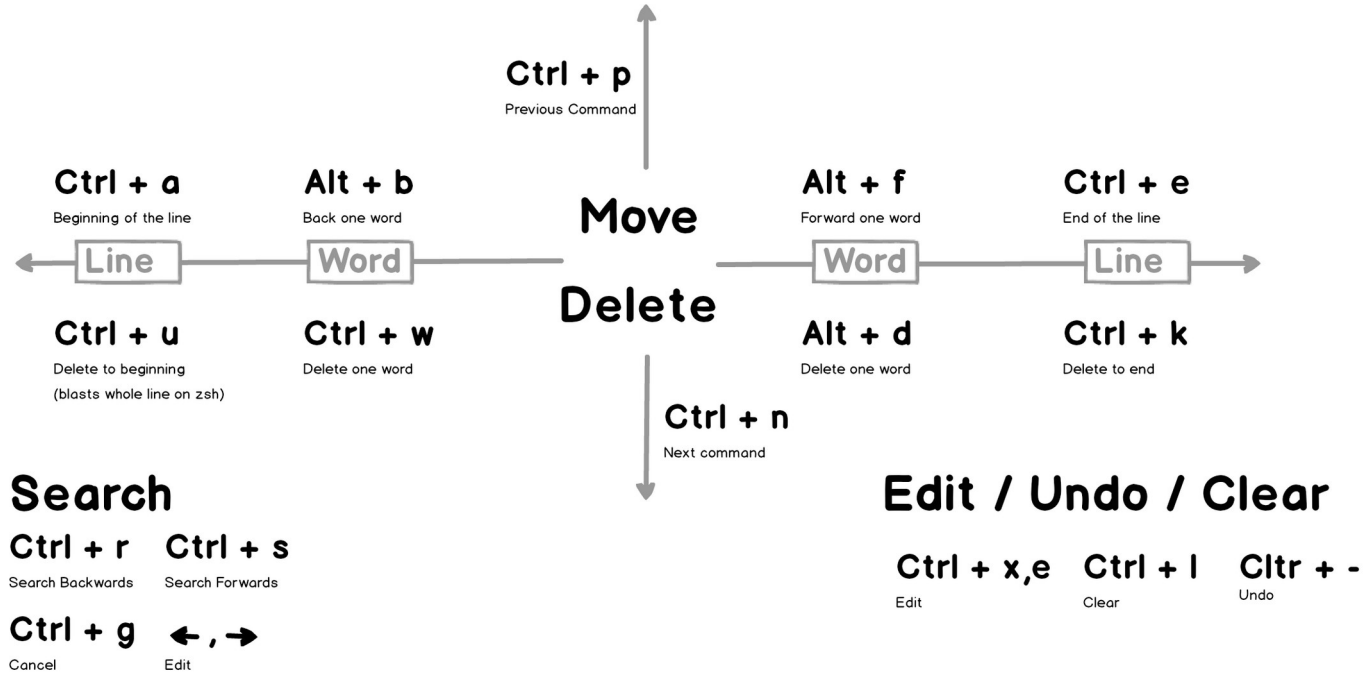


# Bash

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



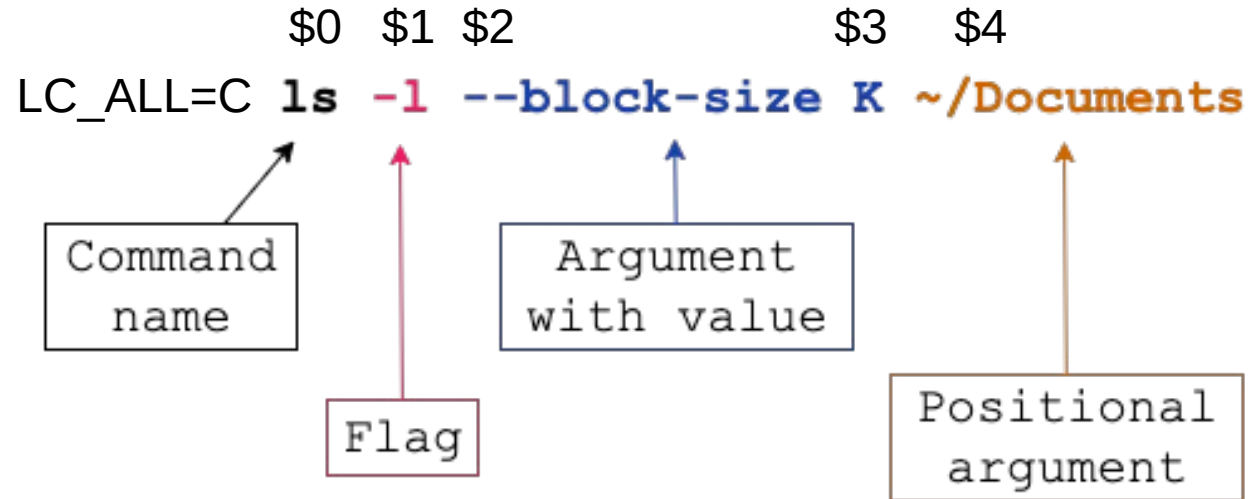
# Typing @ prompt



Credit: effective-shell.com



# Command line



# Starting off easy

- [cmdchallenge.com](https://cmdchallenge.com)

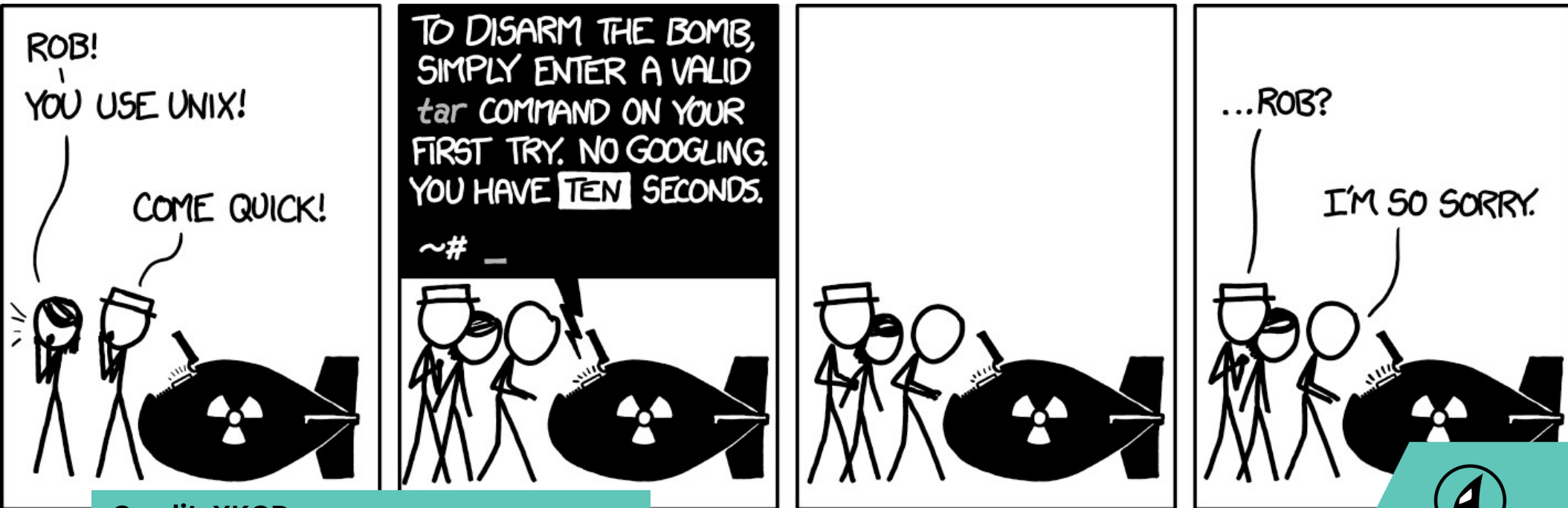




**Let's play!**



# Download here



Credit: XKCD



# Task: tool exploration

- Explore presentation-toolkit and shellscripts with me



# That's all folks!

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