

Welcome to RITlug!



Tristan

- he/him
- 4th year CS major
- I use Arch (by the way)
 - Fedora, Alpine
 - Previously Manjaro and Debian
- C, Rust, shell scripts, (neo)Vim, ISO-8601/RFC 3339

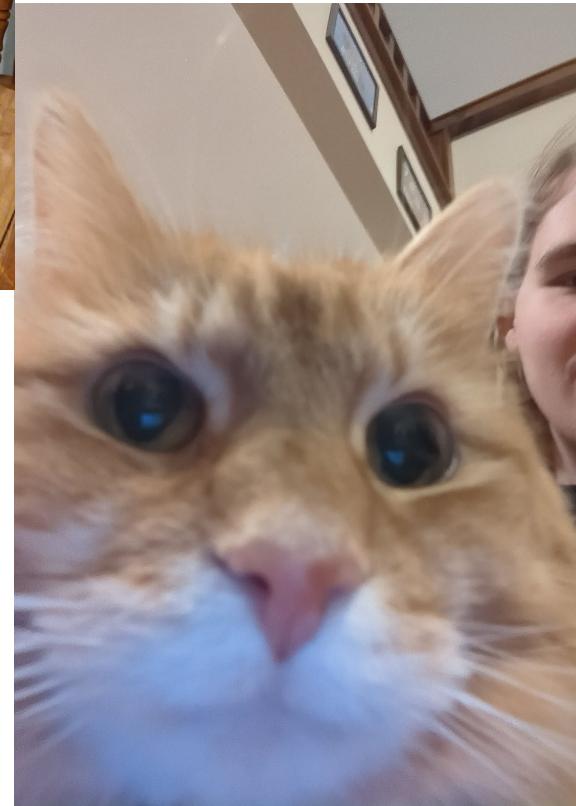


- she/her
- vice president
- 4rd year CS major
 - Last semester :(
- I use **Nix OS**
 - Stores applications & settings in config file
- I like cats
 - they are good
 - i love my cats
 - i have the best cats



let tim cook

Freyaaaaaaaaaaaaaa

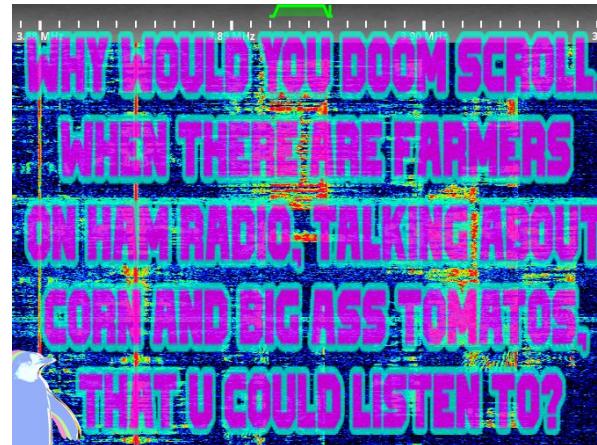


Rose

- She/Her/Hers
- Senior in Computational Mathematics
- Arch
- Vim
- Python, JavaScript, Rust, and (a little) Haskell

Aria

- she/they
- Arch and Debian or Alpine for servers
- 4th year CE
- I like doing things with electronics and microcontrollers
- Music enthusiast



Who are you?

- Name
- Major
- Year
- Pronouns
- Operating System (OS) / Linux Distro you use (can be anything!)
- Anything else you would like to share :)

What is RITlug?

- Began ca. 2007, probably
- Student-led organization to create a community for (and encourage contribution to) Linux and free/open source software
- Weekly meetings 4:30-6:00 PM on Fridays



[https://campusgroups.rit.edu
/RITLUG/club_signup](https://campusgroups.rit.edu/RITLUG/club_signup)



<https://discord.gg/xev2W62>



<https://ritlug.com/>

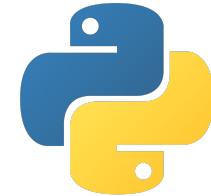
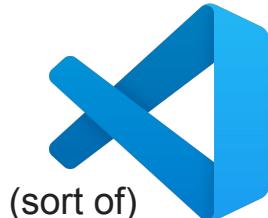
What is free and open-source software?

- Many software projects are *proprietary*
 - Source code is kept secret by the developers
 - Users rely on developers to make improvements
- *Open-source software*: source code is available publicly
- *Free software* makes additional guarantees:
 - Freedom to view, copy, modify, or redistribute
 - Encourages user contribution
- Free software licenses
 - Copyleft: modified versions must keep the same license



Why free software?

- More secure
 - Anyone can look for and rectify vulnerabilities
- Community-driven
 - Reflects community needs instead of profit
- Longevity
 - Software can be rebuilt or modified for future systems



What is Linux

- A free and open source operating system kernel
- What is a kernel?
 - Mediates control between the hardware and the user processes
 - Also mediates control between user processes and each other
 - Memory management, process scheduling, other boring stuff like that
- What does it mean to use Linux?
 - Typically, we actually mean that we are using a Linux-based software distribution (distro)
 - Linux + systemd + GNU userspace + ...
 - Linux + OpenRC + busybox + ...

Why use Linux?

- It's FOSS (see previous previous slide)
- Modular
 - Linux distributions are a collection of independent components
 - Users can pick and choose when building their system
- Customizable
 - Linux is not an operating system unto itself, just a “Kernel” (the very core of a OS)
 - There is a wide variety of operating systems built upon Linux
 - Ubuntu, Fedora, Arch, Android

What does Linux look like?



Install Linux Mint



All Applications

Calendar



Accessories

Library



Graphics

LibreOffice



Internet

LibreOffice Calc



Office

LibreOffice Draw



Sound & Video

LibreOffice Impress



Administration

LibreOffice Writer



Preferences

Places



Recent Files



22:45

title lists and describes [Screenshot](#) and [screencast](#) software.

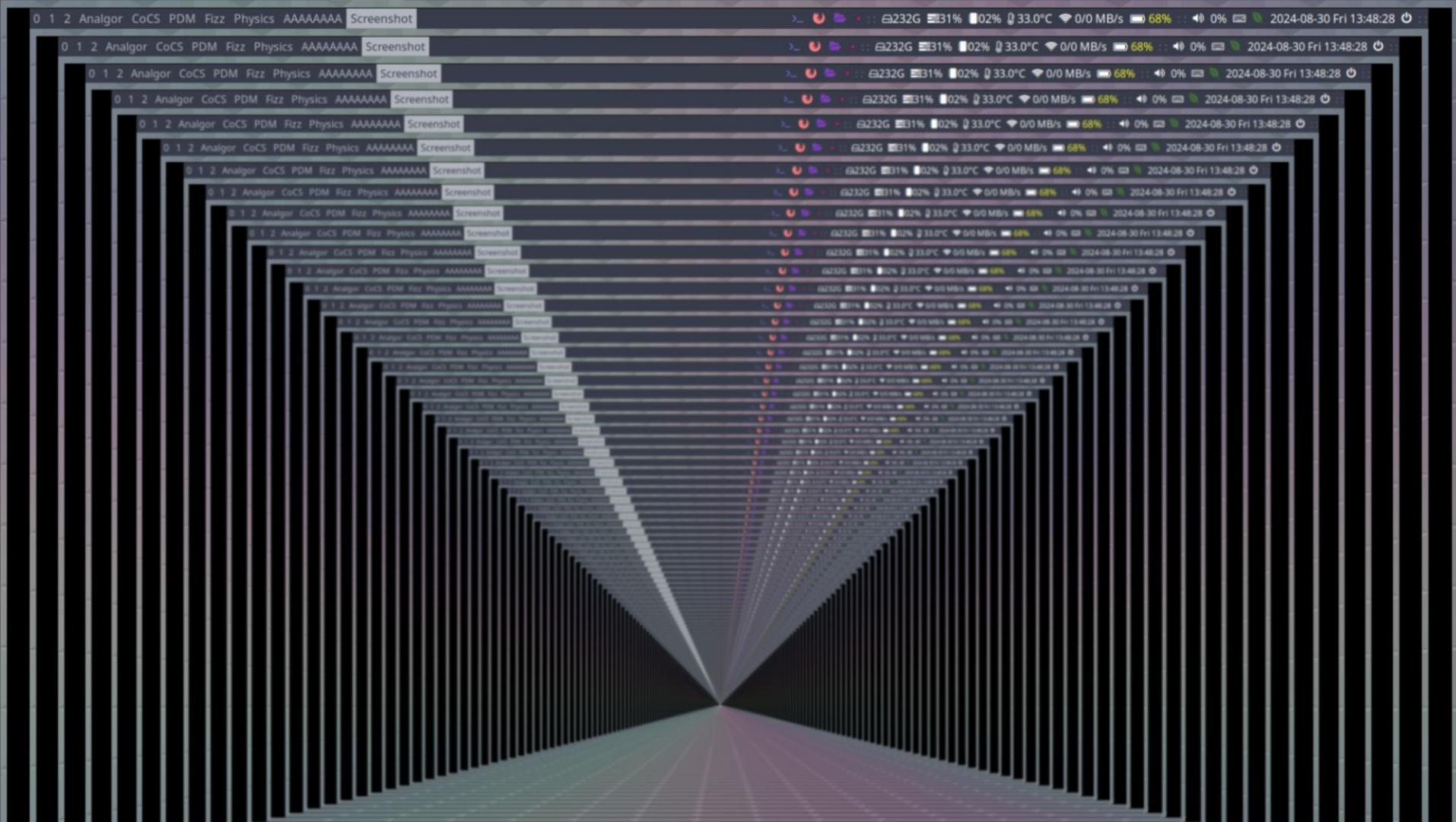
1 Screenshot software

1.1 Dedicated software

1.1.1 Application list

- **CoreShot** — Simple lightweight screen capture utility for X11. Part of C-Suite.
<https://cubocore.gitlab.io/> || [coreshot](#)^{AUR}
- **Escrotum** — Screen capture using python and gtk3, inspired by scrot.
<https://github.com/Roger/escrotum> || [escrotum-git](#)^{AUR}
- **Flameshot** — Qt5 based software for interactive screenshot taking. Select the desired area, draw with different tools and enjoy the customization capabilities.
<https://github.com/lupoDharkael/flameshot> || [flameshot](#)
- **GNOME Screenshot** — Screenshot tool for the GNOME desktop.
<https://gitlab.gnome.org/GNOME/gnome-screenshot> || [gnome-screenshot](#)
- **grim** — Grab images from a Wayland compositor.
<https://sr.ht/~emersion/grim/> || [grim](#)
- **gscreenshot** — Simple GTK screenshot utility with delays, selection, and copy-to-clipboard functionality.
<https://github.com/thenaterhood/gscreenshot> || [gscreenshot](#)^{AUR}
- **HotShots** — Application for capturing screens and saving them in a variety of image formats as well as adding annotations and graphical data (arrows, lines, texts, ...).
<https://github.com/obiwankennedy/HotShots> || [hotshots-git](#)^{AUR}
- **imgur-screenshot** — Take screenshot selection, upload to [imgur](#) + more cool things.
<https://github.com/jomo/imgur-screenshot> || [imgur-screenshot](#)^{AUR}
- **ksnip** — Ksnip is a Qt based cross-platform screenshot tool that provides many annotation features, basic image manipulation and remote destination (ftp, imgur, script)
<https://github.com/ksnip/ksnip> || [ksnip](#)
- **Lightscreen** — Simple tool to automate the tedious process of saving and cataloging screenshots, it operates as a hidden background process that is invoked with one (or multiple) hotkeys and then saves a screenshot file to disk according to the user's preferences.
<https://lightscreen.com.ar> || [lightscreen](#)^{AUR}
- **LXQt Screenshot** — Screenshot tool for LXQt. Run with `lximage-qt --screenshot`.
<https://github.com/lxde/lximage-qt> || [lximage-qt](#)
- **maim** — Simple command line utility that takes screenshots. It is meant to replace scrot and performs better than scrot in many ways.
<https://github.com/naelstrof/maim> || [maim](#)
- **MATE Screenshot** — Screenshot tool for the MATE desktop.
<https://mate-desktop.org> || [mate-utils](#)

```
[simon@simon-p15 ~]$ []  
  
resolving dependencies...  
looking for conflicting packages...  
  
Packages (1) escrotum-git-0.2.1.r48.a41d0f1-1  
  
Total Installed Size: 0.10 MiB  
  
:: Proceed with installation? [Y/n] y  
(1/1) checking keys in keyring  
(1/1) checking package integrity  
(1/1) loading package files  
(1/1) checking for file conflicts  
(1/1) checking available disk space  
:: Processing package changes...  
(1/1) installing escrotum-git  
Optional dependencies for escrotum-git  
    python-numpy: fast image generation [installed]  
    ffmpeg: screen recording [installed]  
:: Running post-transaction hooks...  
(1/1) Arming ConditionNeedsUpdate...  
[simon@simon-p15 ~]$ escrotum  
Gtk-Message: 13:04:21.957: Failed to load module "colorreload-gtk-module"  
Gtk-Message: 13:04:21.957: Failed to load module "window-decorations-gtk-module"  
[  ]
```



Fill out the feedback form!



<https://forms.gle/VNYEHKystLifFDZL9>
(Sign in with your RIT account)

Come give a talk!



<http://present.ritlug.com>
Submit a presentation!



<http://suggest.ritlug.com>
Suggest a topic!