Free and Open Source Security: Global Culture, Development, and Economics

Olivia A. Gallucci

About

- Semester
- Honors research
- Work in progress
- Continuing this research over the summer
    - Open@RIT

Introduction

Hello!

Dual-BS in CSEC and CS, Min. FOSS

FOSS enthusiast

Proud Linux user

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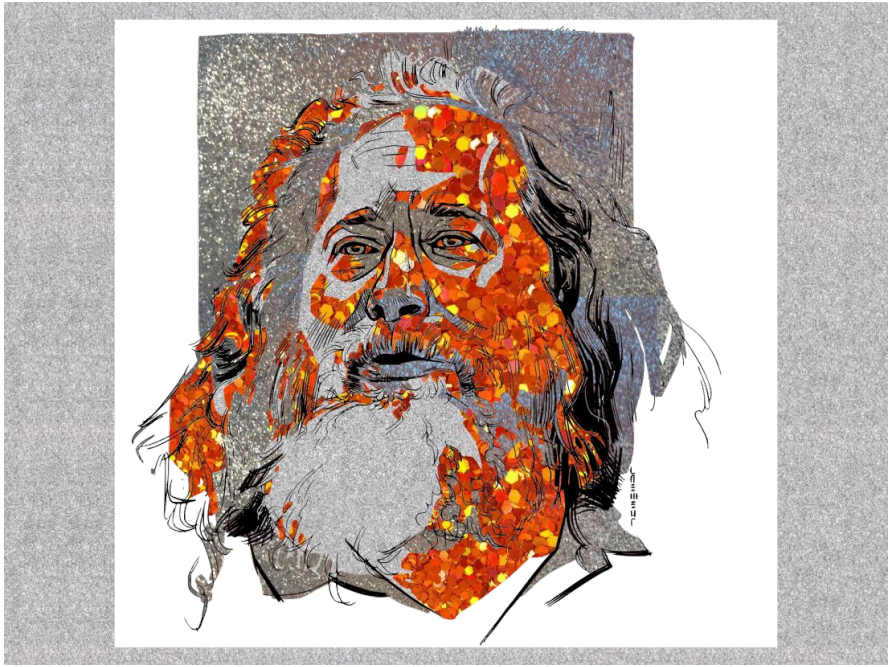
What is FOSS?

Free and Open Source Software

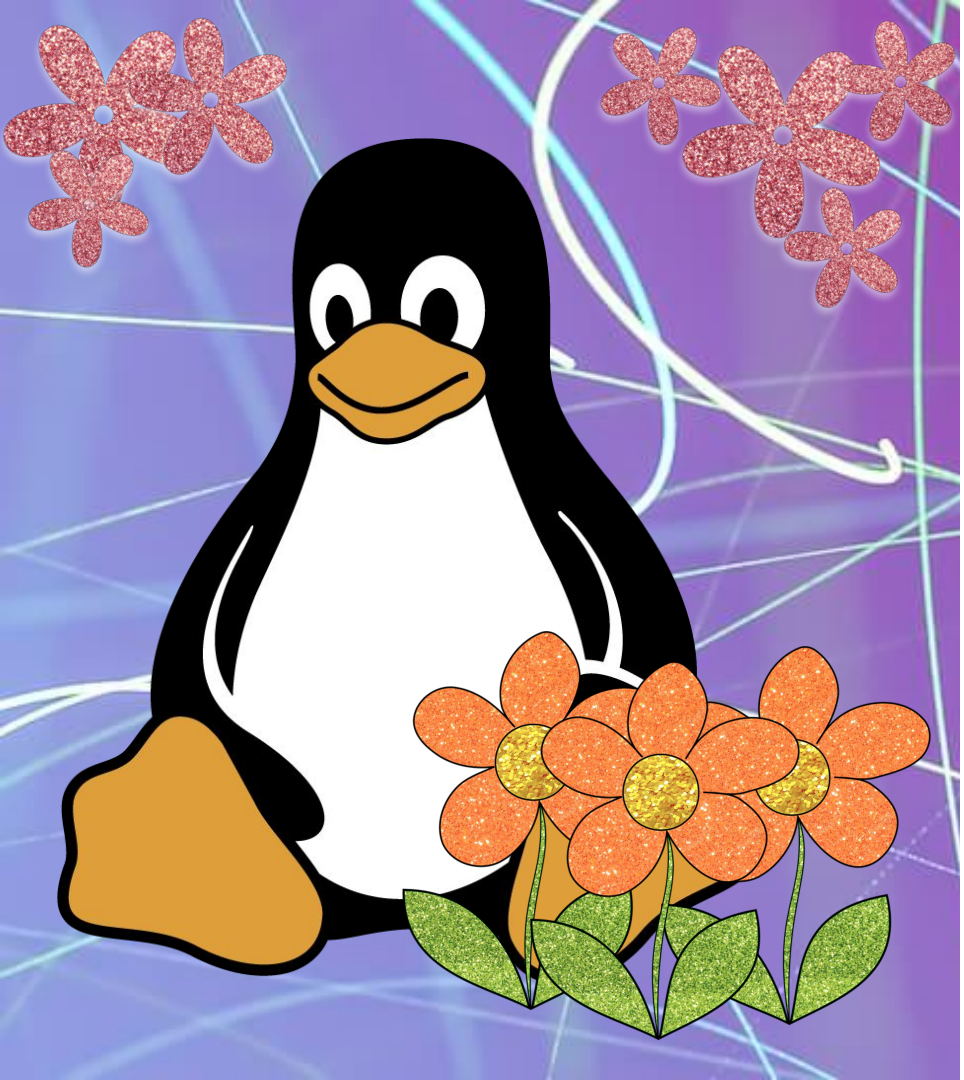


"Free as in freedom; not free beer."

LibreOffice
The Document Foundation
APACHE
Nextcloud

What is Humanitarian Free and Open Source Software Development?

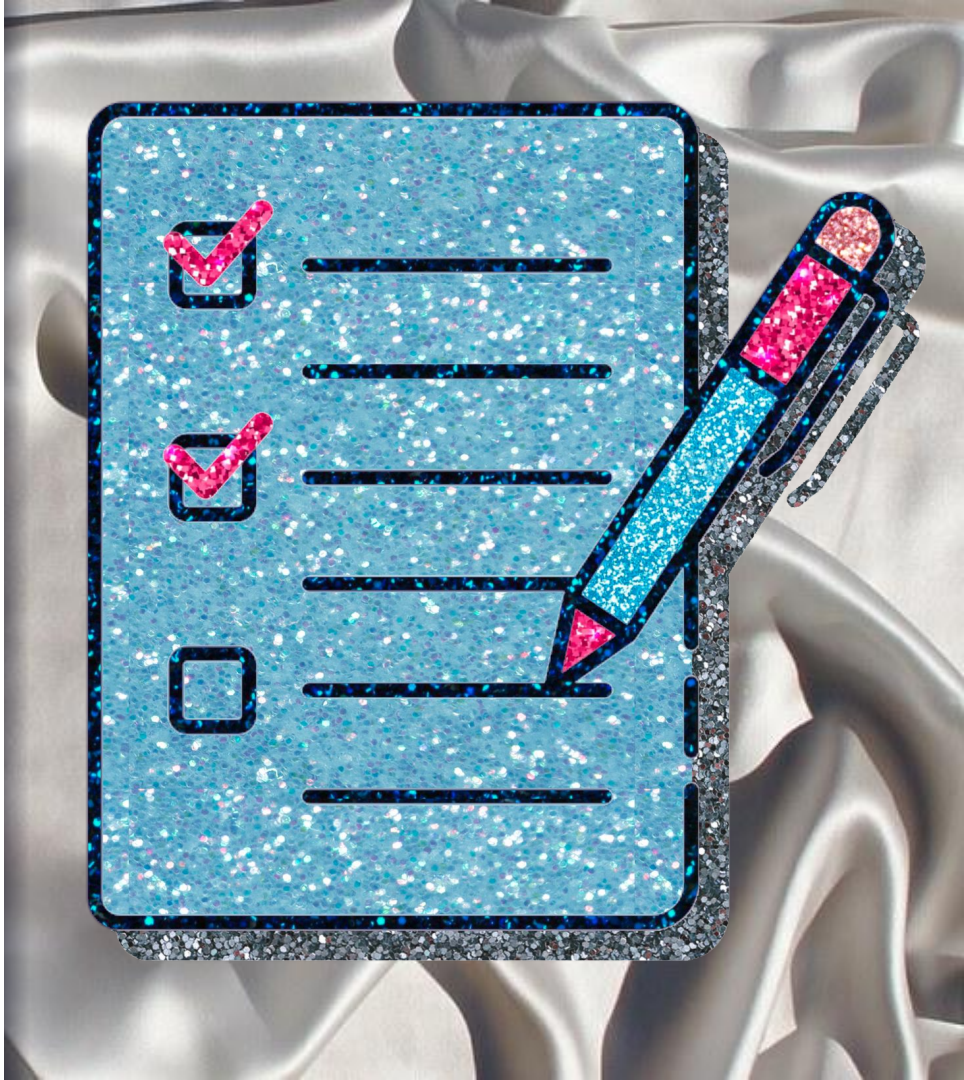
(Only like the best thing ever!)



- IGME-582
- Design, creation and production of FOSS
- Spring
- 2nd year standing (normally)

HFOSS ‘21

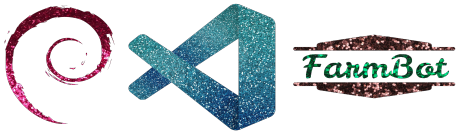
- *Working in Public: The Making and Maintenance of Open Source Software*
  - Nadia Eghbal
- Speakers
- Comm Arch
- Bug fix
- Contributions
- Lit Review



Influential Coursework

Commarches

Debian, VS Code, FarmBot



Bug Fix & Contributions

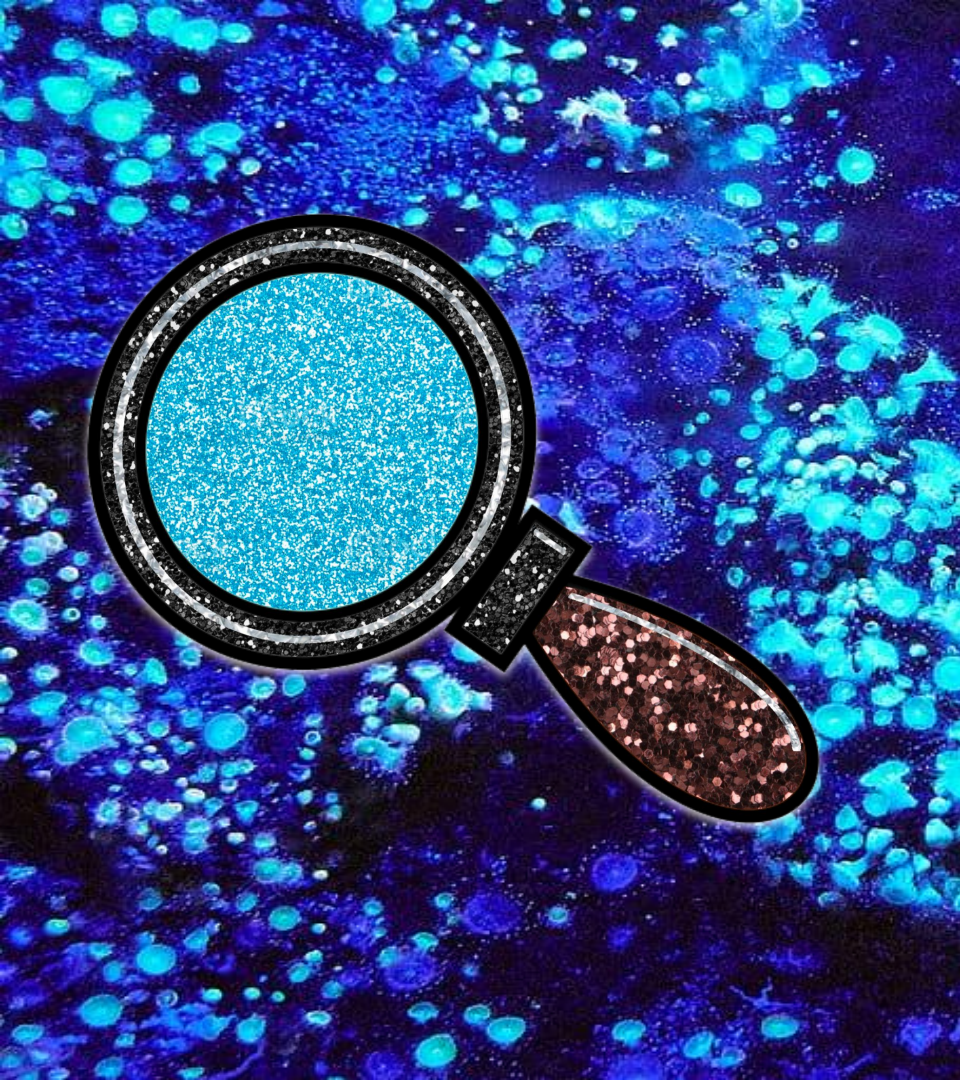
TigerOS Tutorial

Part I, Part II, Part III

Literature Reviews

Open@RIT's Open Work References

Spring Semester Research

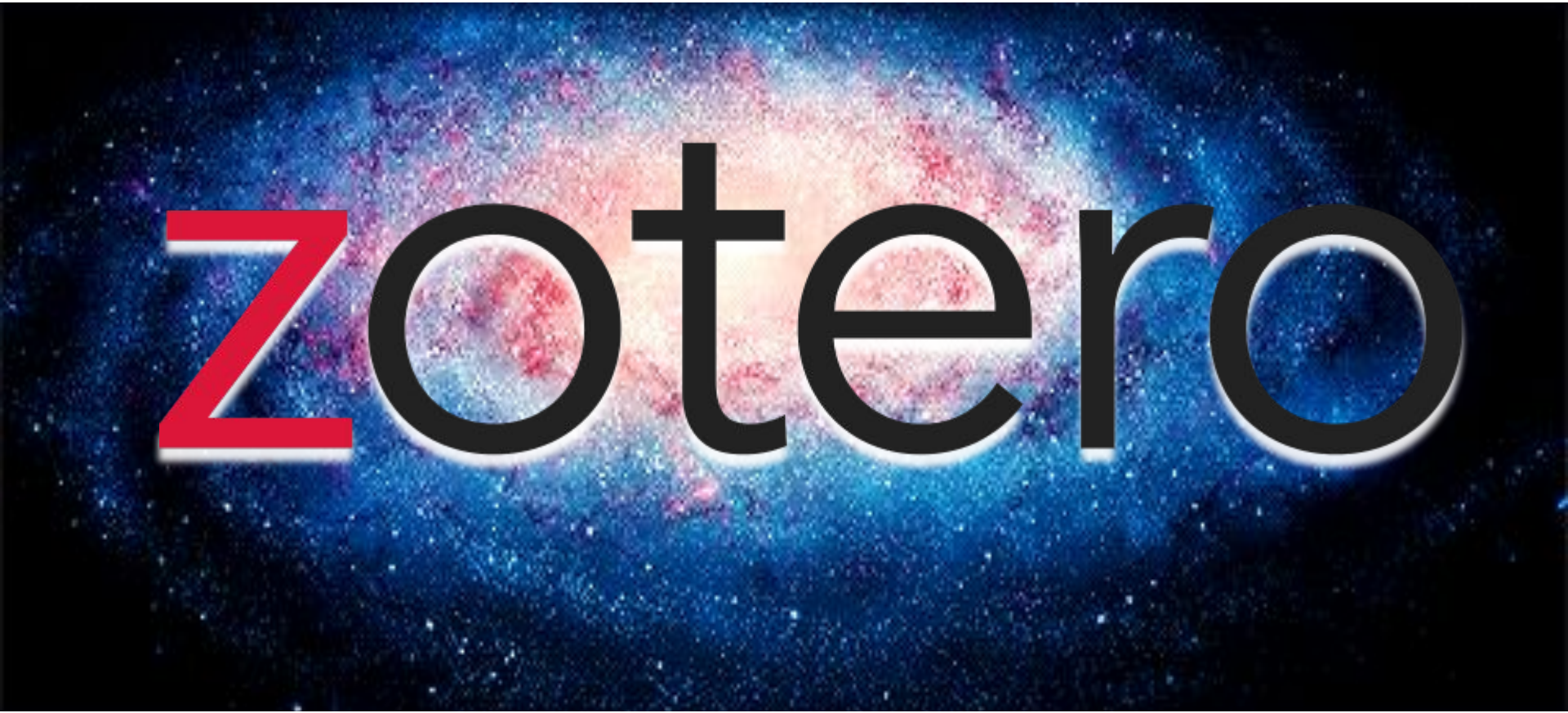


Objective

Use lit reviews to create a knowledge-base of resources on Open topics

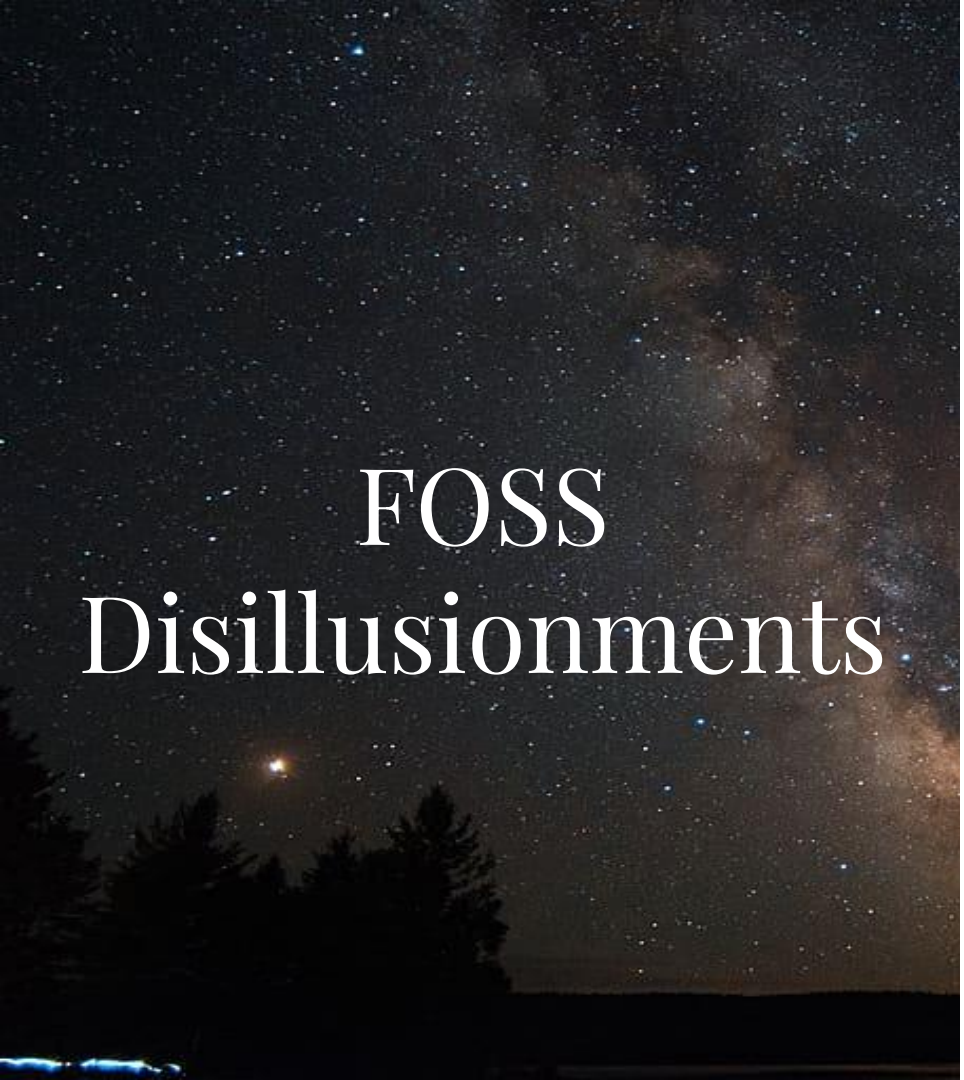
Research process

- 5 weeks
- Students in the Humanitarian Free and Open Source Software Development Class (IGME-582)
- Wrote review on class blog
- Make bibliographies
- Approx. total ≅ 75 entries


zotero

What did I cover?

Extremism



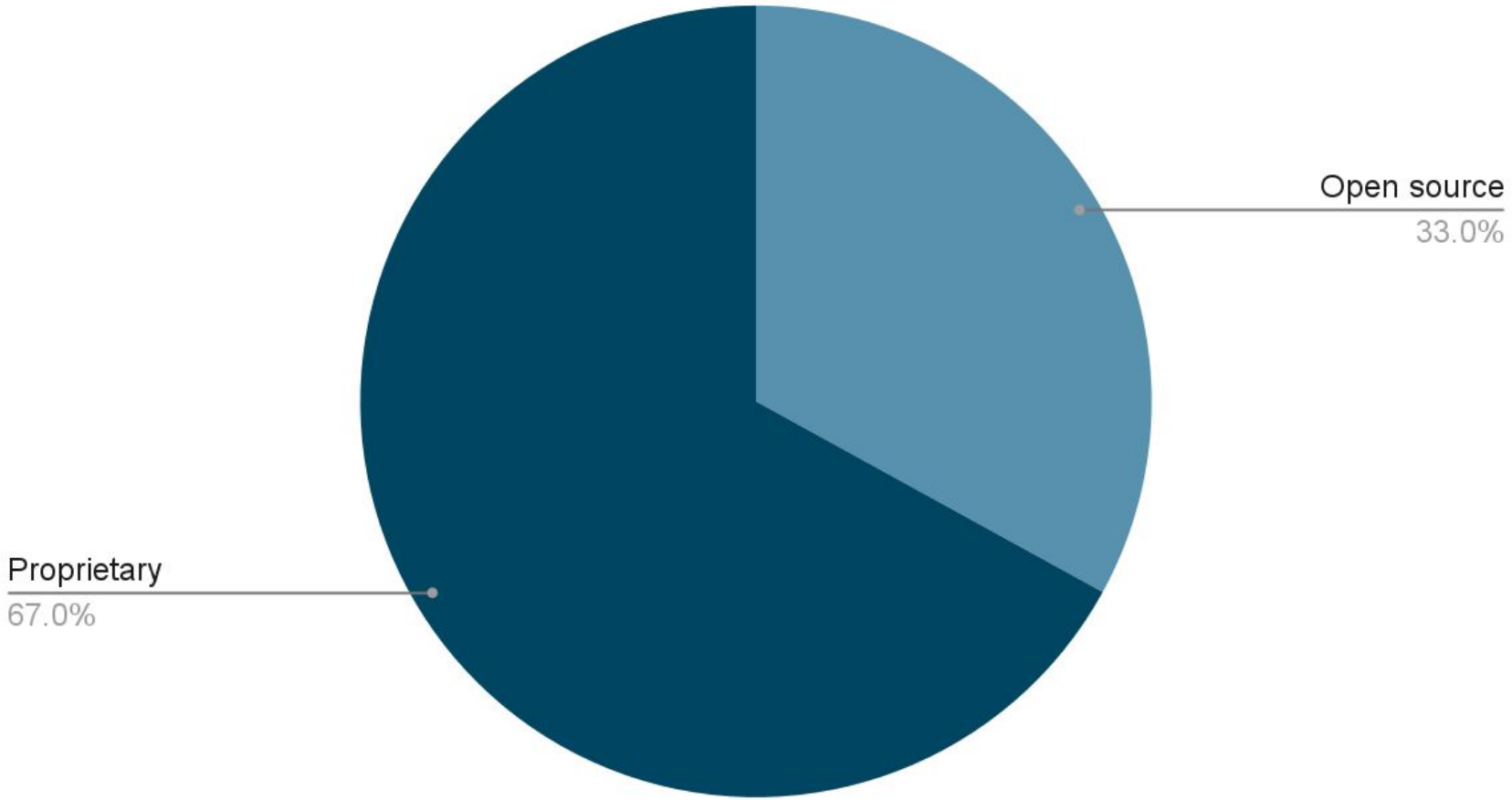
FOSS Disillusionments

- Medium to large projects
  - FOSS > proprietary
- Freedoms

  (3) The freedom to distribute copies of your modified versions to others.

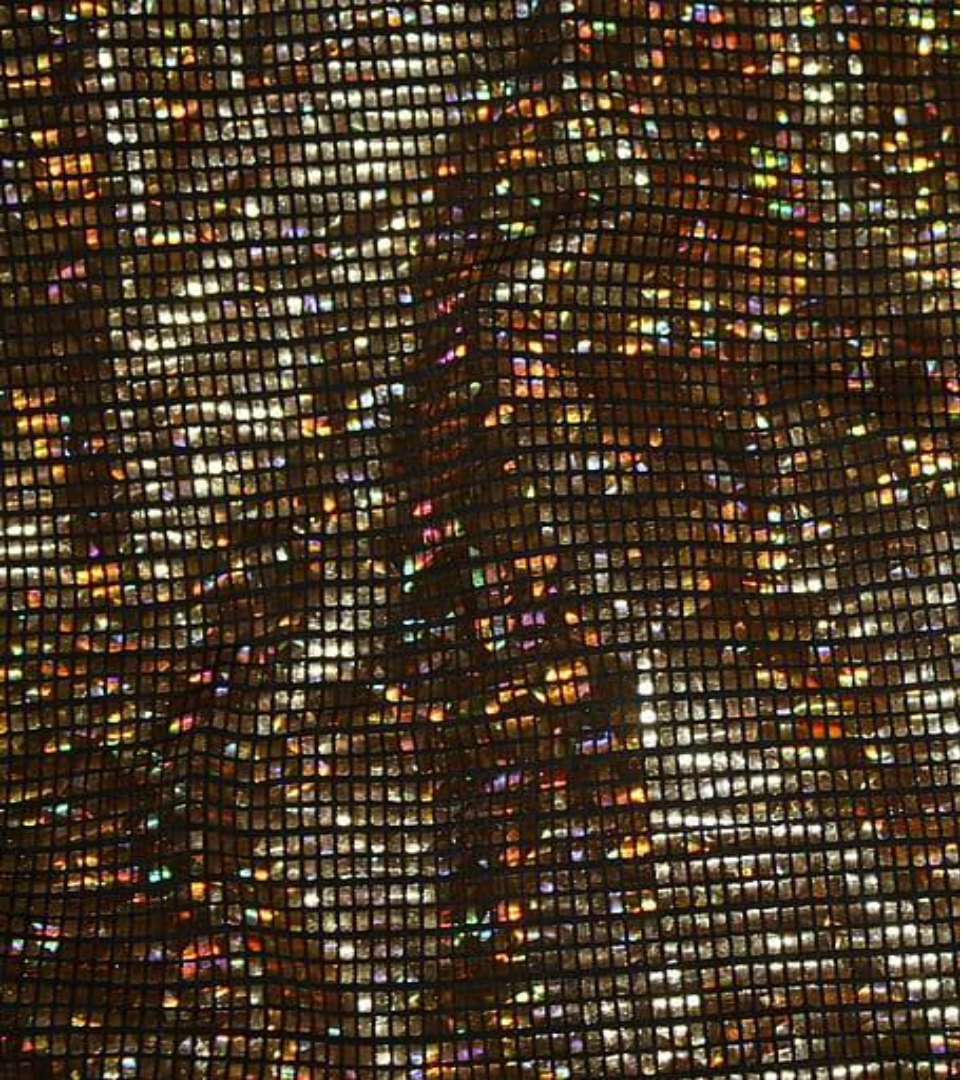
The Truth?

Villainization



Responsibility

- 85% of users
- 55% security teams
- 35% for operations
- Security == depends



Economics

- More FOSS == more jobs
- More FOSS == more money
- More FOSS == economic growth
- More FOSS == more security

- Switch to linux
- Use mainly foss software
- Contributing to foss
- Buy ethically made FOSS computers like System76

Get Involved

Open@RIT

Open@RIT

- Research
- Immersion & minor (ALL majors)
- Co-ops, internships, etc…
- FOSS hours
- Linux User Group

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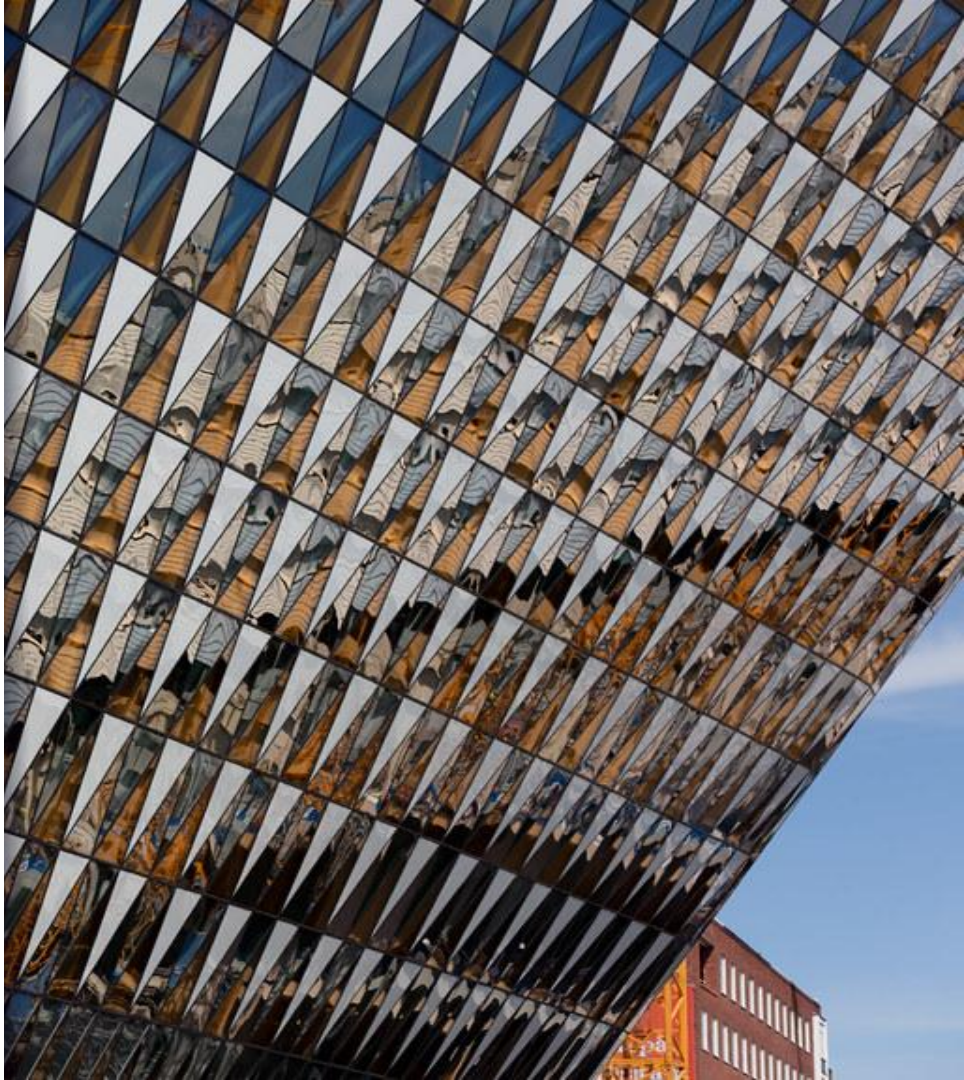

Want to learn more or get involved?

Minor and immersion for ***all*** majors and colleges:

- Free Culture and Free and Open Source Computing Immersion
- Free and Open Source Software and Free Culture Minor

Sample courses:

- FOSS History & Culture, ENGL 450
- Humanitarian FOSS Development, IGME 582
- Legal & Business Aspects to FOSS, IGME 583

Links:

- Open@RIT
- Zotero Database
- Website

Student Groups:

- Linux User Group (Discord)
- FOSS hours: Thursday, 5-6pm, meeting-code: rit-foss-hours

Questions?

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