



MAY 21<sup>ST</sup> 2026 | OAK RIDGE TENNESSEE

# Experimental Computing Laboratory (ExCL) Monthly Meeting

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Advanced Computing Systems Research Section



U.S. DEPARTMENT  
of **ENERGY**

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FOR THE US DEPARTMENT OF ENERGY



# Aaron Young — Old and new file management favorites

## Cross-platform



- Compare folders and files
- Git difftool and mergetool
- Open folders over SFTP
- Image and Excel diff
- Cross-platform
- I use it to sync windows config and between OneDrive/Dropbox
- I've used this tool since high school

## Windows Specific



- Much more performant windows explorer alternative.
- Dual-pane and tabbed browsing.
- Easy flexible shortcuts and groups for project directories
- File age heatmap
- Customizable with plaintext config file.



- Instant indexed filename search
- Expressive search syntax + regex

## Terminal/Cross-



Yazi

### ⚡ Blazing Fast Terminal File Manager

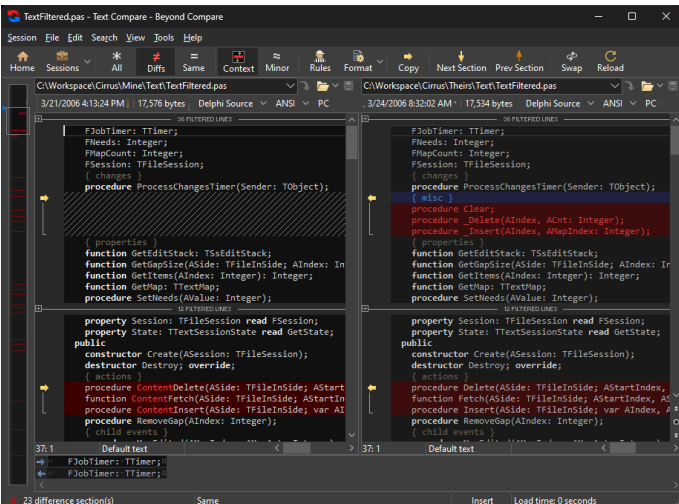
- Written in Rust, based on non-blocking I/O.
- Fast, easy navigation.
- Vim-like.
- Multi-tab support
- Bulk-rename
- Integrates other tools including **jq**, **fd**, **fzf**, and **zoxide**.

## Linux/MacOS

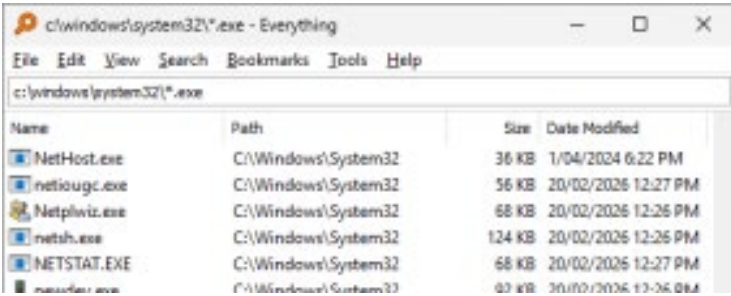
- NCurses Disk Usage (**ncdu**)
  - Disc usage TUI
- plocate (**locate**)
  - Indexed file search

# Aaron Young – Old and new file management favorites

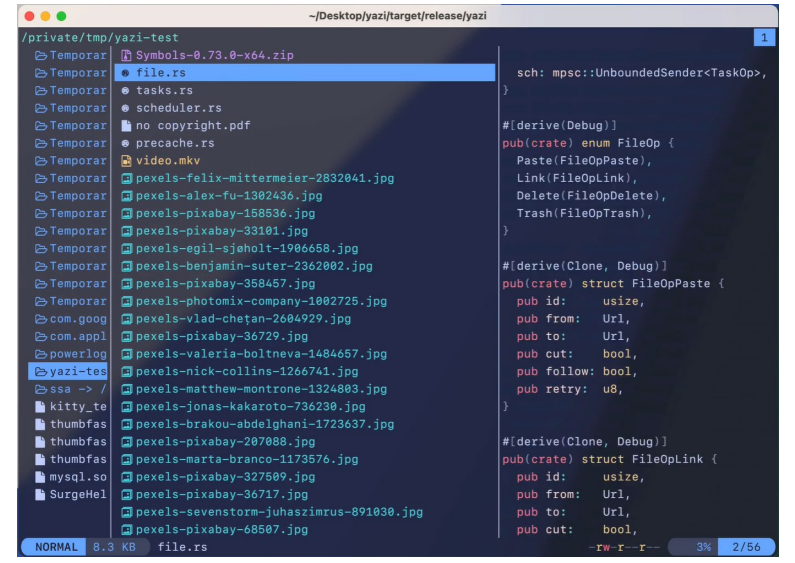
Cross-platform



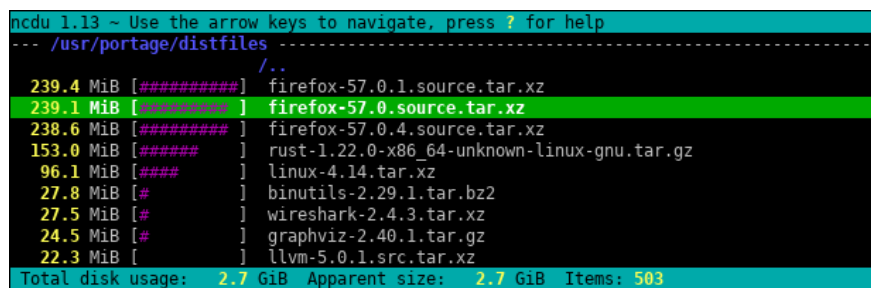
Windows Specific



Terminal/Cross-platform



Linux/MacOS

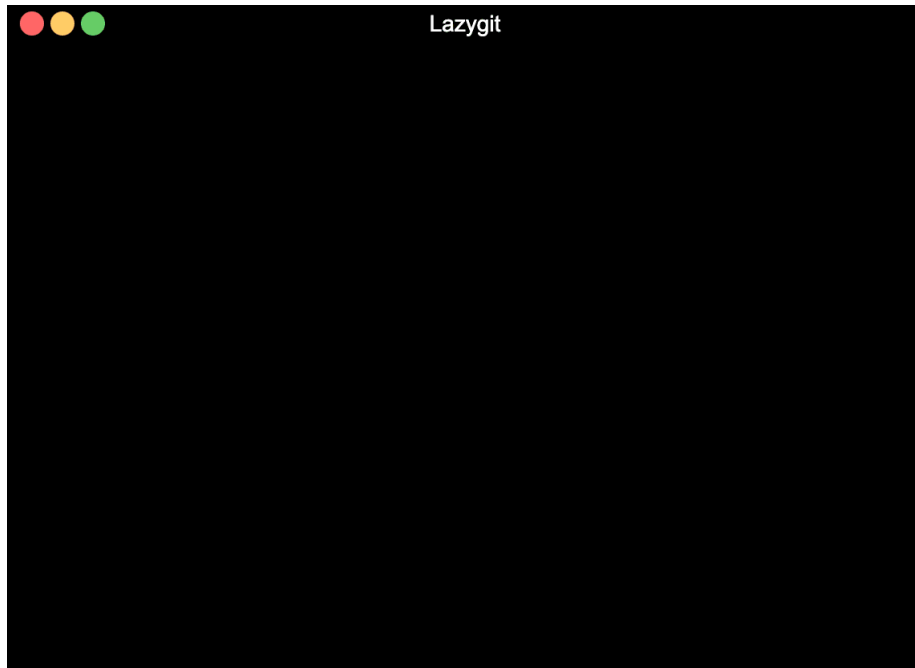


# Aaron Young — New Git Tools

## Lazygit



- Visualize Git repo with TUI
- Turn git commands into keypresses, vim-style



## GitButler

Git, *But* Better

Desktop CLI

GitButler is the Git-backed change management tool for modern, AI coding workflows. Parallel and stacked branches, unlimited undo, agent integrations, and more. It's Git, refined.

- Very easy rebasing and commit editing to craft clear PRs/MRs.
- Intergrates with git forges with stacked and parallel branches
- Easy to setup and teardown on existing git repos.
- Con: Still early days.

## Everything *You Wished* Git Had



### Stacked Branches

Build features on top of features without merge conflicts. Review and land changes independently.



### Parallel Branches

Work on multiple branches simultaneously without switching. Context-switch freely between different features.



### Unlimited Undo

Made a mistake? No problem. Undo and redo any operation, even after commits.



### Powerful Smartlog

Easily see what is on your active branches without wrestling with complicated git log commands



### Simple history editing

Move changes between commits. Absorb, reorder, amend with simple commands.



### Agent-Optimized

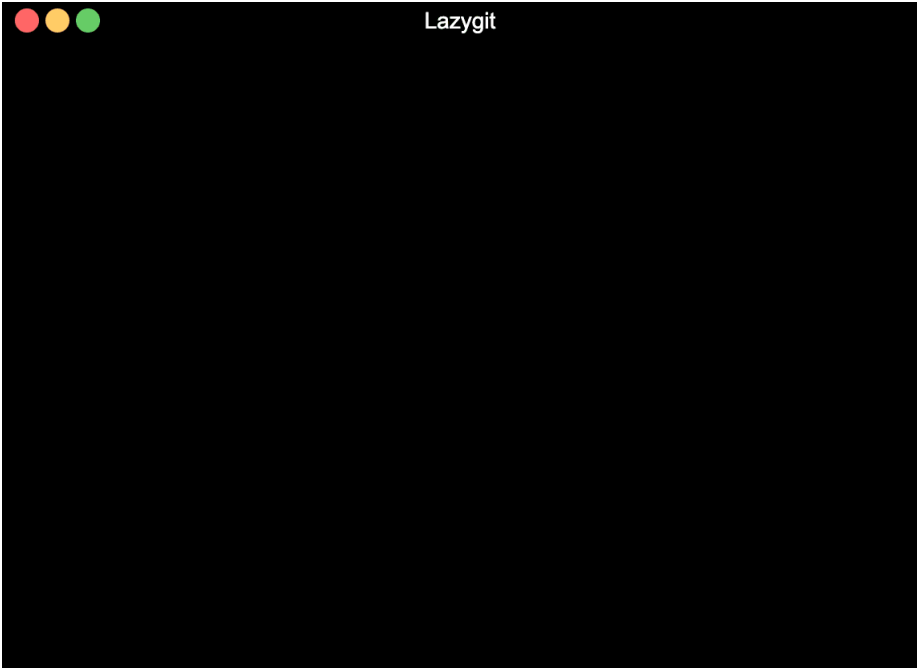
Built for the AI era. Structured output, predictable commands, and perfect for automated workflows.

# Aaron Young — New Git Tools

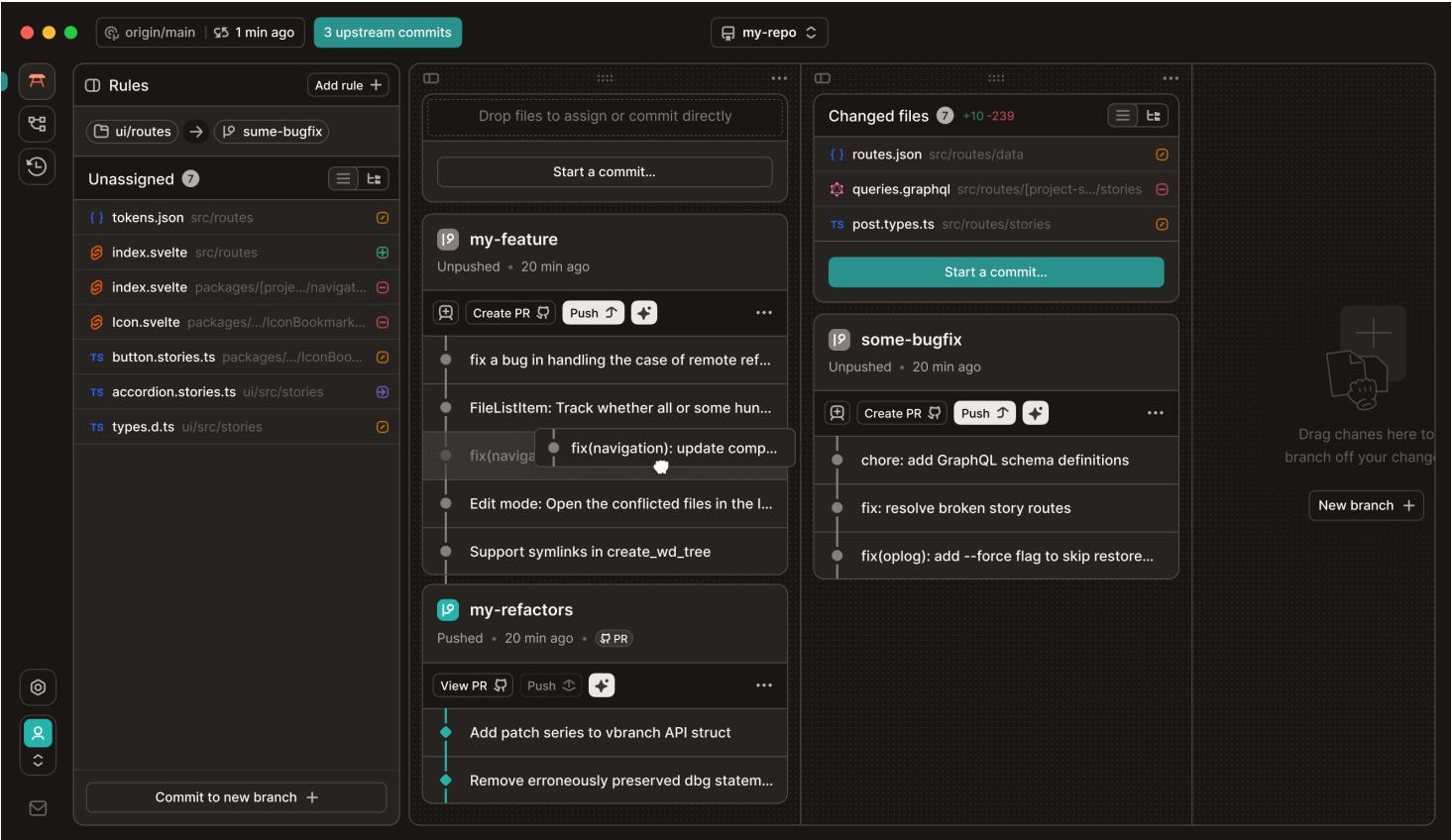
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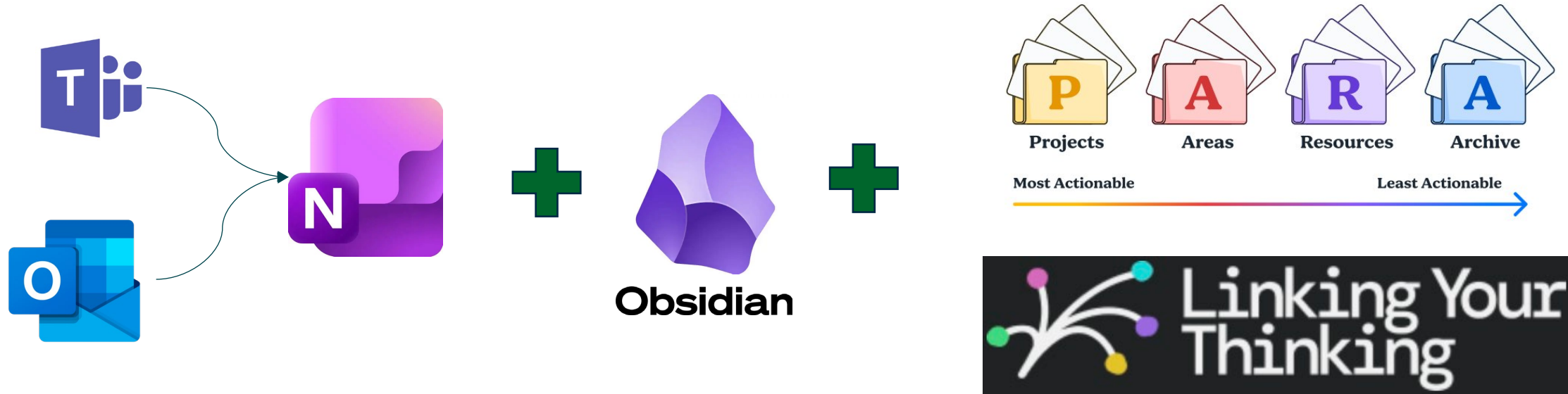


## GitButler



# Aaron Young — Favorite Workflows

## Note Taking — Personal Knowledge Base — Second Brain



## Remote Linux Development



# Outage Friday May 15 through Sunday May 17

- Planned Power outage in 5600 K200 (research) and L200 (moderate infrastructure) racks.
  - Deploy new UPS5 to support OLCF and complete triennial electrical maintenance.
- This affected both ExCL racks in K200, including all file servers, hypervisors, Triple Crown and several compute servers
- Outage appeared to end Sunday evening on schedule (no notification was received)
- Most ExCL systems were restored by 11 AM Monday
  - A small number of problems appeared. Follow-up procedures are being updated to better address post-maintenance issues
- ExCL staff used the outage window to patch systems and remediate Copy Fail and Dirty Frag vulnerabilities, along with other maintenance tasks

# New hardware that has been approved or is awaiting approval



TensTorrent BlackHole P150



Featuring: NVIDIA GB10 Grace Blackwell superchip



HP ZGX Nano  
Featuring: NVIDIA GB10 Grace Blackwell superchip



Framework Desktop Mini AI Cluster  
Featuring: Ryzen™ AI Max+ 395 - 128GB



TinyPilot Voyager 3 KVM

# Questions/Projects/Comments/Discussions