



SyncMe and Git Worktrees

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Outline

- ► This talk is in two parts: SyncMe and Git Worktrees
- ► Part 1: Help when you have too-many git repos
- ▶ Part 2: Help whne you have more that one active branch



Motivation for the syncMe tool

- ► Too many repos: 28 on laptop and 22 on Frontera
- Examples: my dotfiles (.up), Lmod and XALT
- ► Hard to keep then all up-to-date
- ► Result: syncMe in the SyncMeTool repo
- ► https://github.com/TACC/SyncMeTool.git



What does syncMe do?

- 1. Uses \$SyncDirPath for were to look for git repos
- 2. Can report the status for all those directorys
- 3. Can do a pull on those directories.



Install

- See https://github.com/TACC/SyncMeTool.git for complete details
- ► TLDR:
- ► Install lua and luaposix if necessary
- ▶ clone repo
- ► Put SyncMeTool/bin in your \$PATH



Usage: Specify where to look: \$SyncDirPath

- ► Set \$SyncDirPath to be a list of directories to search for ".git"
- ► Paths w/o a leading '/' are relative to \$HOME



Usage: syncMe status or syncMe st

- ► Loop over directories, search for ".git" directory or file
- ► Runs git status in those directories
- Removes unnecessary output
- ► Those repos with necessary output are buffered and printed at the end.

Usage: syncMe pull or syncMe up

- ► Loop over directories, search for ".git" directory or file
- ► Runs git pull in those directories on origin
- Removes unnecessary output
- ► Those repos with necessary output are buffered and printed at the end.

Demo

► Show this in practice.



Part 2: Git Worktrees

- ► Two projects: Lmod and XALT have more than one active branch
- Switching branches in same directory tree ususly unhelpful
- ► Especially running tests in two different branches
- ► Could use multiple clones, but I have lost track of them.



What are git worktree?

- ► They are part of git but not well known.
- ► They allow for multiple source directories from one clone
- ➤ You can leave branches in incomplete state and switch to a different branch
- ► No need to use "git stash"

Demo

► Show this in practice.

