Introduction to Git

Mechanical & Thermal Engineering Frederik Thorsted

Agenda

- Background
- What is Git
- Benefits of using Git
- Branching
- Working with Git



Background

- Local program development
 - Select access to programs
- Need for tracebility
- Need for review
- Need for integrity

What is Git?

- Free and Open-Source software for version control (SCM)
- Fully distributed
- Able to handle large projects
- Make 'project specific' programs

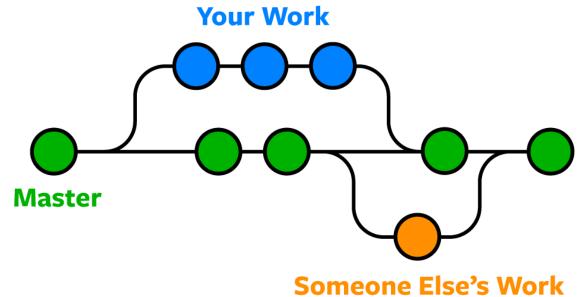
Current uses for Git:

- MATLAB files
- Python files
- OpenFOAM case files
- EES files
- More to come

Benefits of using Git

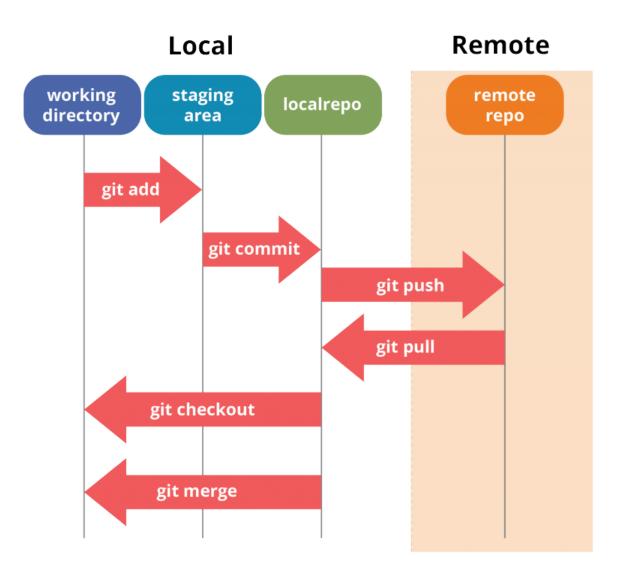
- Control changes
- Adding tracebility
- Review of code
- Create custom programs without modifying exiting code
- Ability to use already familiar tools

Git branching



Working with Git

- Git GUI
- Git bash
- Local and remote repository
- Gitignore



Resources

- Git book: https://git-scm.com/book/en/v2
- https://www.atlassian.com/git/tutorials/using-branches/git-checkout