

git and GitHub.com





What is git?

- Version Control Software
 - Track changes to files
 - Collaborative
 - Track who made changes
 - Revert changes









What is GitHub.com?

- Commercial website for hosting online git repositories
 - Free options
 - Educational plans
 - GitHub Enterprise Cloud for USDA-ARS









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- Collaborate
- Track history of changes
 - Revert changes
 - See what you did
 - Recover deleted bits
- Experiment
 - Easy to try something
- Backup
 - Remote copies





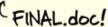


Version control

One file, many versions

"FINAL".doc









FINAL_rev.2.doc



FINAL_rev.6.COMMENTS.doc



FINAL_rev.8.comments5. CORRECTIONS.doc





FINAL_rev.18.comments7. corrections9.MORE.30.doc







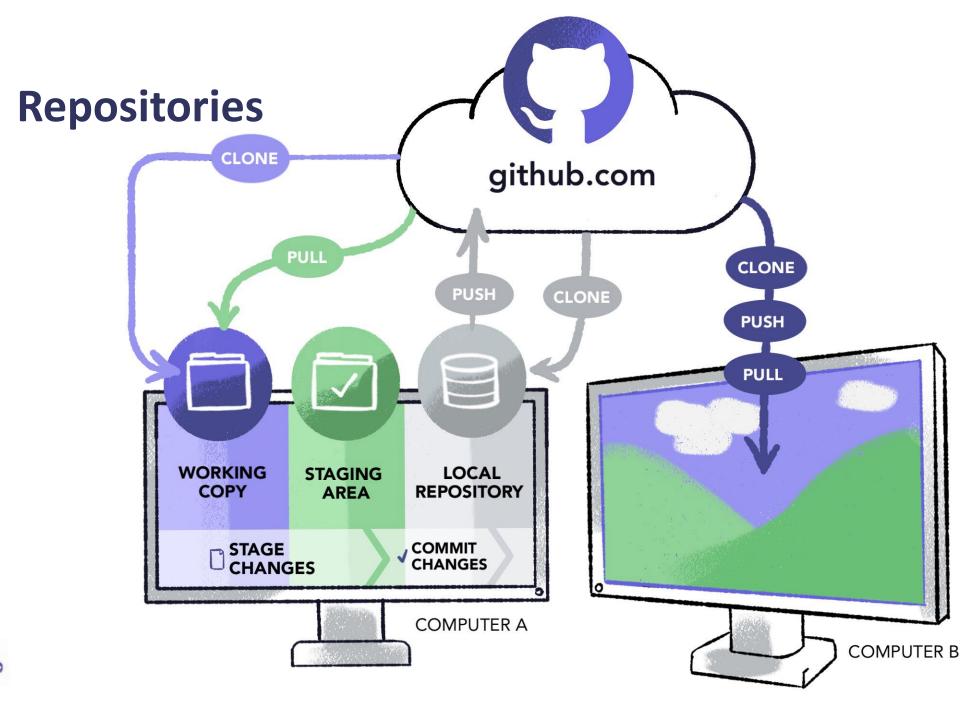












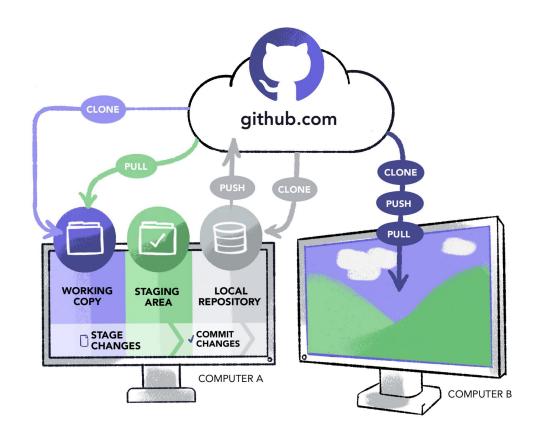






Simple git workflow

- Clone the repository
- o Edit file(s)
- Add changed files (moves to staging area)
- Commit changes with a message summarizing changes
- Push changes to resynchronize with GitHub.com









git also used for models and more









