Developing with GitHub

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Check list to get started

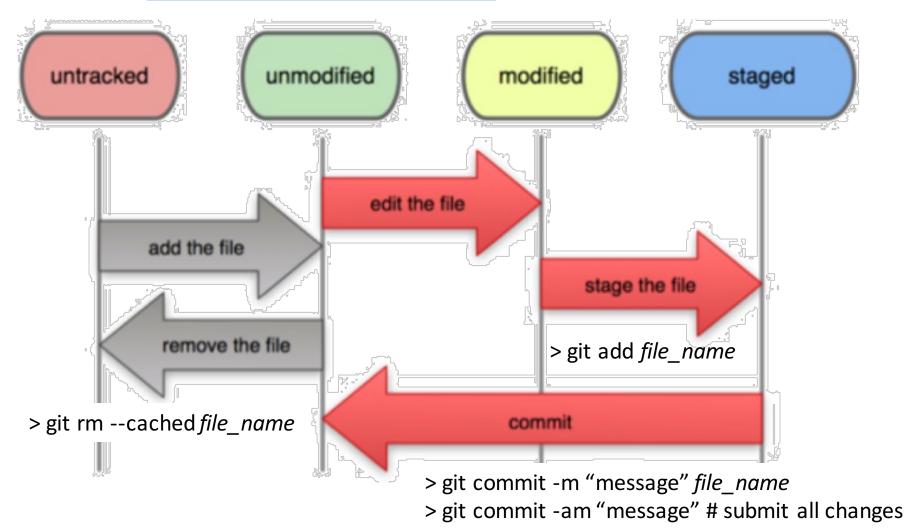
- 1. Register at https://github.com/
- 2. Send me yuhw.pku@gmail.com your user account name
- 3. Send your RCF SSH public key to GitHub: https://help.github.com/articles/generating-ssh-keys/#step-4-add-your-ssh-key-to-your-account
- 4. Try it out: https://github.com/E1039-Collaboration/e1039-wiki/wiki/Start-up-guide-with-an-example

Collaborative editing on GitHub

- GitHub support two types of collaborative editing, we would use both for different repositories
- For the analysis repository, see "Example work flow 2"
 - Every collaborator we free to add and edit
 - Example result: https://github.com/E1039-Collaboration/seaquest-analysis/commit/1cfe01d450d983e4b236907749ccb5a2635d1316
- For nightly-built software (e.g. coresoftware repositories)
 See "Example work flow 3"
 - Collaborators can folk the repository -> make modification -> send a pull request.
 - Examples results: https://github.com/E1039-Collaboration/seaquest-offline/pull/3
 - Similar flow to CMS software management (https://github.com/cms-sw/cmssw)

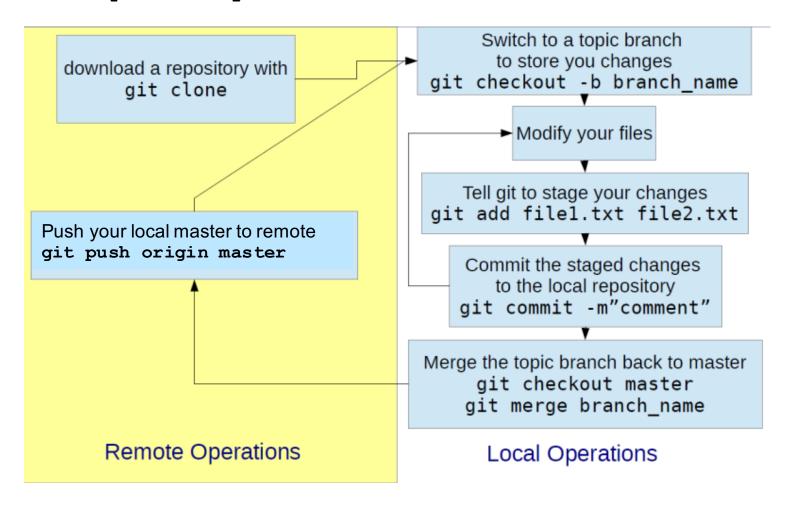
Example work flow 1, local file operation

Read More: https://git-scm.com/docs/gittutorial



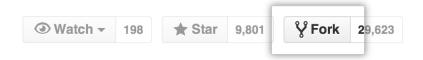
Example work flow 2, collaborative editing analysis repository

- > git clone git@github.com:E1039-Collaboration/seaquest-analysis.git
- > cd seaquest-analysis



Example work flow 3, Fork & pull request GitHub coresoftware repository 1/2

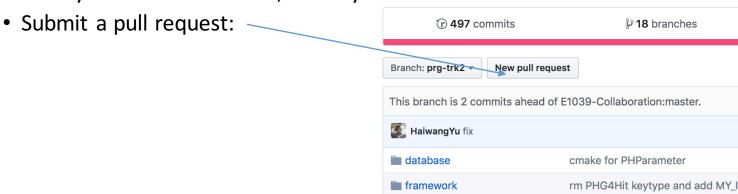
- Fork the sPHENIX/coresoftware in your GitHub account
 - Login to your GitHub account
 - Go to https://github.com/sPHENIX-Collaboration/coresoftware
 - Fork it into your account:



- Setup your fork and sync your fork to sPHENIX
 - > git clone git@github.com: HaiwangYu/seaguest-offline.git
 - > git remote add upstream git@github.com:E1039-Collaboration/seaquest-offline.git
 - > git remote -v # check the setup
 - > git fetch upstream # download update from sPHENIX main
 - > git merge upstream/master # merge updates to your local
 - > git push origin master # upload

Example work flow 3, Fork & pull request GitHub coresoftware repository 2/2

- Make modification and upload changes to your fork
 - > git push origin master
- Then submit a pull request to suggest your change to sPHENIX/coresoftware
 - Goto your GitHub account, select your fork of coresoftware



 Development team will test, comment and approve the change following the pull request