ITK Git Reference

One-time Global Setup

SETUP USER git config --global user.name "Jane Doe" Use your full name.

git config --global user.email "jane@doe.org" Information

git config --global color.ui auto Enable color output in Git (optional).

Create and Configure Your Repository

CLONE git clone https://github.com/InsightSoftwareConsortium/ITK

cd ITK REPOSITORY

Configure ./Utilities/SetupForDevelopment.sh Follow prompts, sets up local hooks,

remotes, push URLs etc.

Topic Branch Lifecycle

UPDATE Review local modifications, delete, git status

> git checkout master stash or commit them.

git pull --rebase upstream master

NEW TOPIC git checkout -b my-topic upstream/master Create branch off master.

Branch

Write Code vim MyExistingFile.cxx MyNewFile.cxx Use your favorite editor.

New Commit git add MyExistingFile.cxx MyNewFile.cxx Stage changes to existing and new files.

> git commit Commit changes locally.

Amend vim MyExistingFile.cxx Edit the file. Commit git add MyExistingFile.cxx Stage changes.

git commit --amend Amend previous commit locally.

ADD TESTING git data-upload DataFile.png

Upload a testing data input or baseline Data # Add DATA{DataFile.png} to CMakeLists.txt image to data.kitware.com.

git add -- DataFile.png.sha512 CMakeLists.txt Reference the content link in the

git commit --amend CMake configuration.

Add the content link and updated

CMake configuration.

Submit for Check what will be pushed to GitHub. git prepush Push the topic to GitHub for review. git review-push REVIEW

Enter the URL returned in your browser, and review and open the pull

request.

Respond to git rebase -i HEAD~3 Modify local commits (3 back here).

Check what will be pushed to Gerrit. Review git prepush git review-push --force Push the updated topic to Gerrit.

DELETE TOPIC git fetch upstream Fetch the latest changes from origin.

git branch -d my-topic Delete topic, fails if not merged.

Review

PUSH FOR git review-push Push the current topic branch for

Review. review.

REVIEW PULL git pr <pull-request-number> Fetch and check out by number a pull

Requests request locally for review.

CLEAN PULL git pr-clean Clean locally fetched pull requests.

REQUESTS

General Guidelines

COMMIT <short-description> Should be less than 60 characters.

MESSAGE Blank line after short description.

TOPIC summary-of-topic Lower case, separated by dashes.

Naming

For more information, see git-scm.com.