BTR Git Cheat Sheet

Basics

Help: git <command> --help master: default release branch _Test: default development branch

HEAD: current commit

HEAD^ or HEAD~1: parent of HEAD HEAD^^ or HEAD~2: grandparent of HEAD 'HEAD@{yesterday}': HEAD at EOD yesterday 'HEAD@{2 weeks ago}': Head at EOD 2 weeks ago

When Using File Specs: full path, case specific, and can use Tab autocompletion for aid. goGitRepos: Opens folder containing

upstream repositories.

Open current console folder: ex.

Create

Create local and remote repository

git create {Parent} {Client}

Create, add all files and commit

git create {Parent} {Client} "Msg"

From existing BTR repository git clone-btr {Parent} {Client}

From existing repository

git clone ~/existing ~/new git clone git://host.org/project.git git clone ssh://user@host.org/project.git

{Parent}-BTR, Buck, 4.5, 6.0, Shared{}

Browse

Description of last N commits git I -N # Last 5 if omitted

Changes in working directory

git st

Files changed between commits

git ch #HEAD / HEAD^

git ch id #id / id^

git ch id1 id2 #di1 / id2

Files changed between branches

git ch-b
br1> {br2} # Current if omitted

Differences working directory and index

git dt <file>

git dt <file1> <id># file1 diffs b/w work and id

Differences between commits

git dt-c id1 <id2> #id1^ if omitted

git dt-c id1 id2 <file>

Differences between branches

git dt-b br1 file1 # file1 diffs b/w br1 and curr

Differences index and HEAD

git dt-i <file> #if add, no commit

Differences work and HEAD

git dt-h <file> #if add, no commit, edit

Files currently tracked

git Is-files

Commits file was a part of

git fhs file1 # all commits

git fhs file 15 # last 5 commits

Files deleted from repository

git deletes

Branch

List all branches

git br # -r for remote branches

Create and switch to Feature1 branch

git co -b Feature1

Switch to _Test branch

git co Test

Pull new Feature1 branch from remote

git co -b Feature1 origin/Feature1

Merge _Test branch into master

git co master #switch to master

git merge _Test #merge _Test

Files changed between branches

git ch-br br1 br2

Delete a remote branch

git del-rb <remote> <branch>

Commit

Commit all local changes with short message

git com -am "Short Description, fixes #taskid"

Always include task ID in commit

git com -am "Spec Update, fixes #12345"

Add files to next commit

git add . # . Adds all, can put specific names

Add (forgotten) files to previous commit

git com –amend -a #Able to edit message

Commit all local changes, prompt for detail

git com -a #text editor prompts for detail

Pull latest changes from origin

git pull #does REBASE based on settings

Fetch latest changes from origin

git fetch #does NOT merge changes

Revert

Undo changes to a file

git co <file>

Pull previous version of file

git previous <commit> <file>

Restore deleted file

git undelete <file>

Discard ALL local changes

git reset -hard #CANNOT BE UNDONE

Undo changes from a commit

git revert id #creates new 'cancel' commit

Resolve Merge Conflicts

Resolve conflicting file after pull/rebase

e path/to/file #opens file in editor # find >>>> and save appropriate code git add .

git rebase -continue

Undo merge after pull/rebase conflicts

git rebase --abort

<u>Publish</u>

Push current branch to origin/branch

git push #local/remote names must match

Push new Topic1 branch to origin/Topic1

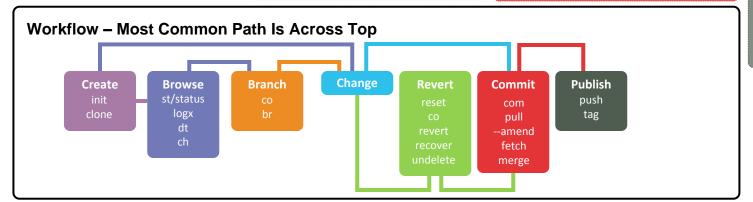
git push origin Topic1

Make a version or milestone

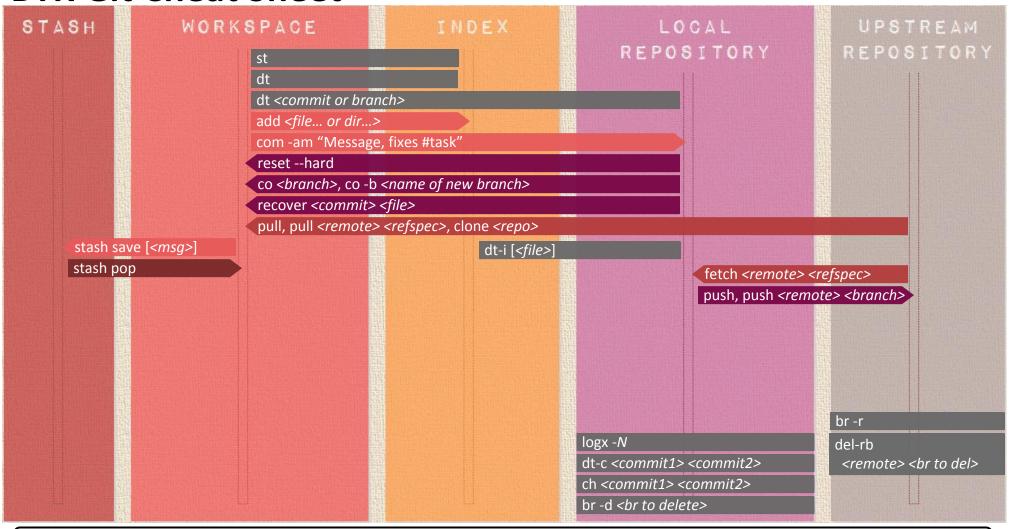
git tag v1.0

Delete Topic1 branch from origin

git push origin :Topic1 #still need to del local



BTR Git Cheat Sheet



Basics

Stash – A place to hide modifications while you work on something else.

Workspace – Local check out / working directory.

Index – The Index (or "staging area") holds a snapshot of the content of the working tree. This snapshot is taken as the contents of the next commit.

Local Repository – A subdirectory named .git that contains all of your necessary repository files – a Git repository skeleton. Typical branches: **master**, **_Test**, **feature-x**, **bugfix-y**.

Upstream Repository - Version(s) of your project that are hosted on the Internet or network, ensuring all your changes are available for other developers. Default is "origin". Typical branches here: **master**, **shared-feature-** \mathbf{x} , **release-y**.