Git Cheat Sheet

Command

Observe your Repository

List new or modified files not yet committed

git status

Show the changes to files not yet staged

git diff

Show full change history

git log

Synchronize

Get the latest changes from origin (no merge)

git fetch

Fetch the latest changes from origin and merge

git pull

Fetch the latest changes from origin and rebase

git pull -rebase

Push local changes to the origin

git push

Working with Branches

List all local branches

git branch

List all branches, local and remote

git branch -av

Create a new branch called my-branch

git branch my-branch

Switch to a branch and update working directory

git checkout branch-name

Delete the branch called my-branch

git branch -d *my-branch*

Merge branch a into branch-b

git checkout branch-b

git merge branch-a

Tag the current commit

git tag my-tag

Make a change

Stages the file, ready for commit

git add [file]

Commit all staged files to versioned history

git commit -m "commit message"

Unstages file, keeping the file changes

git reset [file]

Undoes all commits afer [commit], preserving change locally

git reset [commit]

Discards all history and changes back to the specified commit

git reset -hard [commit]

Save fragments

Lists all stashed changesets

git stash list

Temporarily stores all modified tracked files

git stash

Temporarily stores all modified tracked files with a stash name

git stash save "stash-name"

Details stash number 'n'

git stash show stash@{n} -p

Restores stash number 'n'

git stash apply stash@{n}
Discards stash number 'n'

git stash drop stash@{n}

Restores the most recently stashed files

git stash pop

Oh Shit, Git!

I did something terribly wrong, please tell me git has a magic time machine!?!

git reflog

you will see a list of every thing you've done in git, across all branches! # each one has an index HEAD@{index} # find the one before you broke everything

git reset HEAD@{index}

magic time machine

I committed and immediately realized I need to make one small change!

make your change

git add . # or add individual files

git commit -amend

follow prompts to change or keep the commit message

now your last commit contains that change!

I need to change the message on my last commit!

git commit -amend

follow prompts to change or keep the commit message

I accidentally committed something to master that should have been on a brand new branch!

create a new branch from the current state of master

git branch *branch-name*

remove the commit from the master branch

git reset HEAD~-hard

git checkout branch-name

your commit lives in this branch now

I accidentally committed to the wrong branch!

undo the last commit, but leave the changes available

git reset HEAD~-soft

git stash

move to the correct branch

git checkout branch-name

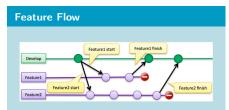
git stash pop

git add . # or add individual files

git commit -m "your message here"

now your changes are on the correct branch

Git Cheat Sheet



Feature start

- git checkout develop
- git pull -rebase origin develop
- git checkout -b feature/nomfeature

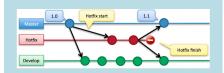
Feature Share

git push origin feature/nomfeature

Feature finish

- git checkout develop
- git merge -no-ff feature/nomefeature
- git branch -d feature/nomefeature
- git push origin develop
- git push origin :feature/nomefeature (if
 pushed)

Hofix Flow



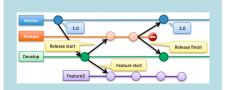
Hotfix start

- git checkout develop
- git pull –rebase origin develop
- git checkout -b hotfix/hotfix-version

Hotfix finish

- git checkout master
- git merge -no-ff hotfix/hotfix-version
- git tag -a hotfix-version
- git checkout develop
- git merge -no-ff hotfix/hotfix-version
- git branch -d hotfix/hotfix-version
- git push origin master
- git push origin develop
- git push origin –tags
- git push origin :hotfix/hotfix-version (if pushed)

Release Flow



Release start

- git checkout develop
- git pull –rebase origin develop
- git checkout -b release/release-version

Release Share

git push origin feature/release-version

Release finish

- git checkout master
- git merge -no-ff release/release-version
- git tag -a release-version
- git checkout develop
- git merge -no-ff release/release-version
- git branch -d release/release-version
- git push origin master
- git push origin develop
- git push origin –tags
- git push origin :release/release-version (if pushed)