### **GIT Cheat Sheet**

### **Initializing Repository**

git init

#### Configuration

# view configurations
git config

# set your name
git config --global
user.name "{name}"

# set your email
git config --global
user.email "{email}"

#### **Remote Repository**

# download repo
git clone {repo\_url}

# link to GitHub/GitLab
git remote add origin
{repo\_url}

# list remote
git remote -v

#### **Committing Changes**

# add changes
git add {file}
git add . # all files

# commit changes
git commit -m "{message}"

# add and commit
git commit -a -m
"{message}"

# edit last commit
git commit --amend -m
"{new message}"

# reset last commit git reset HEAD~1

# send single commit to
branch
git log # to see its ID
git cherry-pick
{commit id}

### **Branch Management**

# list local branches
git branch

# list local and remote
git branch -a

# rename local branch
git branch -m {old\_name}
{new name}

# rename remote branch
git push origin
:{old name} {new name}

# switch to branch
git checkout {name}
# switch to branch (new
method)
git switch {name}

# create branch
git checkout -b {name}
# create branch (new
method)
git switch -c {name}

# merging branch to
current branch
git merge {name}

#### **Push and Pull**

# push changes to remote
git push origin {branch}

# pull changes from
remote
git pull origin {branch}

#### **Working with Stash**

# store changes without
committing
qit stash

# list stash
git stash list

# apply stashed changes
git stash apply

### **Viewing Changes**

# list modified files
git status

# view file differences
git diff

# list commits
git log

# restore file undoing
changes
git restore {file}

#### Miscellaneous

# create tag for branch
git tag -a {tag\_version}

# renaming branch to main
git checkout -b main

# get help
git help {git\_command}

# remove git from folder
rm -rf .git

#### Resources

https://git-scm.com/book/en/v2

https://www.conventionalcommits.org/en/v1.0.0/

https://cmsinstallation.blogspot.co m/2021/05/7-most-common-git-mi stakes.html

https://dev.to/snaka/10-things-i-alw ays-setup-in-git-when-i-prepare-anew-environment-d99

### **GIT Cheat Sheet (Advanced)**

# Remove folder from remote (keeping the local version)

cd {myFolder}

git rm -r --cached
{myFolder}

git commit -m "removed
myFolder"

git push origin main

#### **Download folder from remote**

git fetch

git checkout
origin/master -{path\_to\_folder}

# Discard changes and switch to folder from remote

git switch -f
{branch name}

# Remove folder from both local and remote

git rm -r {folder}

git commit . -m "removed
duplicate {folder}"

git push origin master

#### **Git VI Editor**

Esc to enter a command

:x to exit and save

:q! to exit without saving

### # to learn more, run

vimtutor

# Discard last commit that hasn't been pushed yet

git reset --soft HEAD~1

#### Revert last commit

git revert {hash of last
commit}

#### **Undo the last N commits**

### # undo and keep changes

git reset
HEAD~{number of commits}

## # undo and discard changes

git reset --hard
HEAD~{number of commits}

#### Configuration

# list all 3 levels of
configuration: system,
user and project
git config --list

# set editor to VSCode
git config --global
core.editor code

# edit all 3 levels of
configuration
git config --system
--edit
git config --global
--edit
git config --local --edit

#### **Switch from SSH to HTTPS**

git remote set-url origin username@bitbucket.org:re positoryFolderAndName.git

#### View what was stashed @ 0

git show
stash@{0}:./{filename}

# Fix "fatal: refusing to merge unrelated histories"

# # download from GitHub first and merge

git pull origin master
--allow-unrelated-histori
es

git commit

# Workaround for "failed to connect to github.com port 443..."

# check that SSH key was
properly set first
# if your repo is at
https://github.com/my-Nam
e/repo-name.git
# use

git remote set-url origin
git@github.com:my-Name/re
po-name.git

#### **Show graph of branches**

git log --color --graph
--pretty=format:'%Cred%h%
Creset
-%C(yellow)%d%Creset %s
%Cgreen(%cr) %C(bold
blue)<%an>%Creset'
--abbrev-commit

Fix "error: src refspec main does not match any / error: failed to push some refs to \*"

git checkout -b main