GIT CHEAT SHEET

Objective of Git Version Control Tracking changes

SETUP

Setting the Username
$git config --global user.name "x"

Setting the Email
$git config --global user.email "x"

Git version
$git --version

BASICS

Help
To ask for help

Master
Primary or default branch

Origin
Default upstream repository

HEAD
Current branch

HEAD^
Parent of current branch

Remote
Collaborative shared repository

Merge conflicts
Conflicting file changes

Fork
Copy for experimentation

Create ► Browse ► Change ► Update ► Push

Create
Creating a repo
$git init <directory>

Cloning a repo
$git clone <url>

Renaming a file
$git rm <file>

Browse
Viewing Status
$git status

Display commits
$git log

Compare change
$git diff[oldid newid]

List all tags
$git tag -l

Change
Stage a file
$git add <filename>

Stage all files
$git add .

Commit changes
$git commit -m"msg"

Quick commit
$git commit -am"msg"

Update
Pull changes
$git pull

Fetch changes
$git fetch

Merge changes
$git merge

Fetch branches
$git fetch --all

Push
Basic push
$git push

Branch push
$git push origin <branch>

Force push
$git push --force

Push all branches
$git push --all

BRANCH
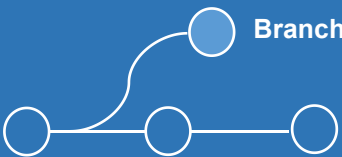
Branch

Create a new branch
$git branch <new branch>

Switching the branch
$git checkout <branch>

Creating branch and switch
$git checkout -b <new branch>

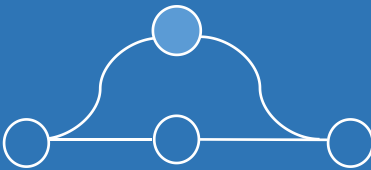**Delete merged branch**
$git branch -d <branch>

Delete branch whether merged or not
$git branch -D <branch>

MERGE

Branch merge command
$git merge <branch_name>

Targeted commit merge
$git merge <commit_hash>

Edit merge message
$git merge --edit <branch_name>

Merge with fast forward
$git merge --ff-only <branch_name>

Merge with no fast forward
$git merge --no-ff <branch_name>

GIT WORKFLOW

Working directory → Staging area → Commited area → Remote repository

add → commit → push

pull

checkout

commit

SYNCHRONISING COMMANDS

Adding a remote repository
$git remote add <alias><url>

View all remote connection
$git remote

Remove connection
$git remote remove <alias>

Fetch all the branches
$git fetch <alias>

Fetch specific connection
$git fetch <alias><branch>

Upload local content
$git push <alias>

Upload branch
$git push <alias><branch>

Rename a connection
$git remote rename <old> <new>

STASHING

Git stash command
$git stash

List all the stashes
$git stash list

GIT TOOLS

Git tools helps to manage code versions, collaborate, control repositories.

GitLab Sourcetree GitKraken