Note: *italiized* words are parameters and *[italicized]* words in square brackets are optional parameters

Getting Help:

git help command o

git command --help Show help for a command

Git Setup:

git config --global user.name "Your Name" and

git config --global user.email "you@ex.com" Used to set author on commits

Repository creation:

git init Create a repository in the current directory git clone *url* Clone a remote repository into a subdirectory

File operations:

git add path Add file or files in directory recursively

-p Add parts of files

git rm path Remove file or directory from the working tree

-f Force deletion of file(s) from disk **git mv** path destination Move file or directory to new location
-f Overwrite existing destination files

git checkout [rev] file

Restore file from current branch or revision

Overwrite uncommitted local changes

Working tree:

git status Show status of the working tree

git diff [path]Show diff of changes in the working treegit diff HEAD pathShow diff of stages and unstaged changes

git add pathStage file(s) for commitgit reset HEAD pathUnstage file for commit

git commit Commit files that have been staged (via git-add)

-a Automatically stage all modified files

git reset --soft HEAD^ Undo commit & keep changes in the working tree

git reset --hard HEAD^ Reset the working tree to the last commit git clean Clean unknown files from the working tree

Examining History:

git log [path]View commit log, optionally for specific pathgit log [from[..to]]View commit log for a given revision range

--stat List diffstat for each revision

-S'pattern' Search history for changes matching pattern **git blame** [file] Show file annotated with line modifications

Remote repositories - remotes:

git fetch [remote] Fetch changes from a remote repository

git pull [remote] Fetch and merge changes from a remote repository

git push [remote] Push changes to a remote repository

git remote -v List remote repositories

git remote add remote name url Add remote to list of tracked repositories

Branches:

git checkout branch
-b branch

Switch working tree to branch

Create branch before switching to it

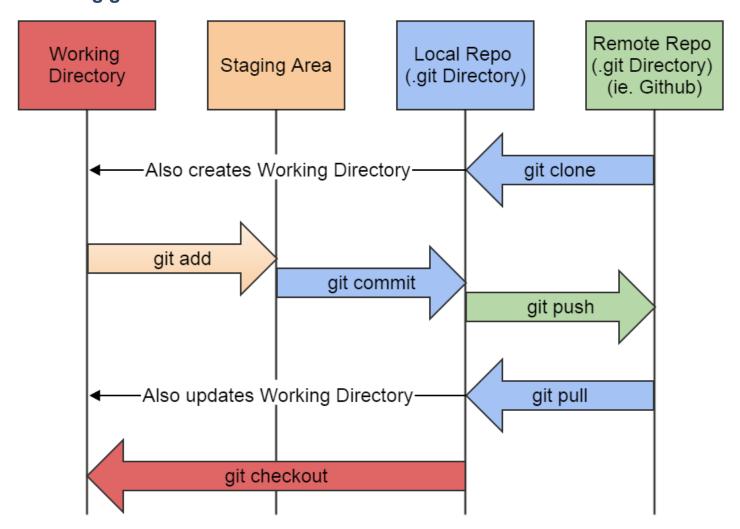
git branch List local branches

git merge branch Merge changes from branch into current branch

Tags:

git tag name [revision] Create tag for a given revision
-1 [pattern] List tags, optionally matching pattern

Visualizing git commands



Example Flows

Working on an existing repository:

git clone url <make changes> git add -p glob

git commit

git push

Creating a new repository:

<start work>
git init

git add -p glob git commit

git remote add remote_name url

git push -u origin master

Helpful Hints:

use git-number to save typing create aliases and use them use ssh keys with passphrases checkout tldr-manpages ignore binary and compiled files use cygwin on windows Download and checkout a remote repository

Fix some bugs or add a feature

Stage file(s) for commit

Create a commit from staged files

Send the changes back to original repository

Make some bugs, or create a feature

Create a repository in current directory

Stage file(s) for commit

Create a commit from staged files

Add remote to list of tracked repositories

Send the changes to remote repository

https://github.com/holygeek/git-number

https://git.io/vCIBR

https://help.github.com/articles/generating-ssh-keys/

https://github.com/tldr-pages/tldr

add them to a .gitignore file https://git-scm.com/docs/gitignore

get a linux terminal in windows https://cygwin.com/