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

#### **Getting Help:**

git help command
git command --help

#### Git Setup - Used to set author on commits

git config --global user.name "Your Name" git config --global user.email "you@ex.com"

#### 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 pathAdd file or files in directory recursively-p pathAdd parts of filesgit rm pathRemove file or directory from the working treegit mv path destinationMove file or directory to new locationgit checkout [rev] fileRestore file from current branch or revision

#### Working tree:

git status Show status of the working tree Show diff of changes in the working tree git diff [path] git diff HEAD path Show diff of stages and unstaged changes git add path Stage file(s) for commit git reset HEAD path Unstage file for commit git commit Commit files that have been staged (via git-add) 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--statList diffstat for each revision-S'pattern'Search history for changes matching patterngit blame [file]Show file annotated with line modifications

#### Remote repositories - remotes:

git fetch [remote]Fetch changes from a remote repositorygit pull [remote]Fetch and merge changes from a remote repositorygit push [remote]Push changes to a remote repositorygit remote -vList remote repositoriesgit remote add remote\_name urlAdd remote to list of tracked repositories

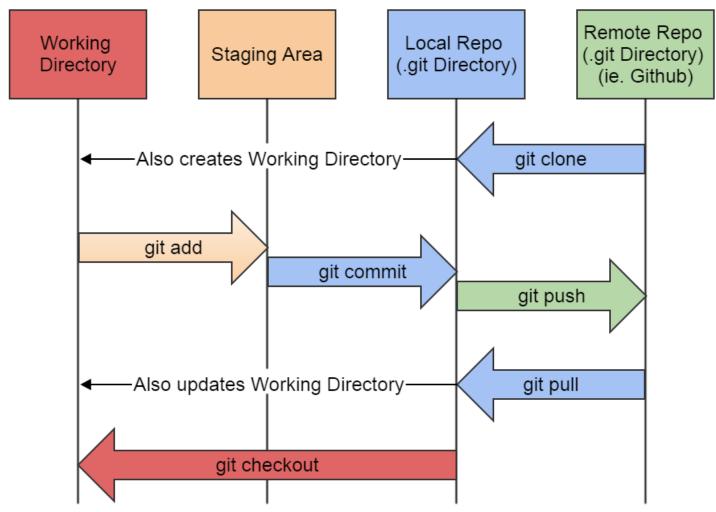
#### **Branches:**

git checkout branchSwitch working tree to branch-b branchCreate branch before switching to itgit branchList local branchesgit merge branchMerge 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**

#### Getting existing repository:

git clone url

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

Working on a Repo:

git pull <make changes> git add -p glob git commit git push

**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

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

Get the latest version with other changes Make some bugs, or add a feature

Stage file(s) for commit

Create a commit from staged files

Send the changes back to original 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 <a href="https://git-scm.com/docs/gitignore">https://git-scm.com/docs/gitignore</a>

get a linux terminal in windows <a href="https://cygwin.com/">https://cygwin.com/</a>