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

## File operations:

git add path -p git rm path git mv path destination

git checkout [rev] file -f

Working tree:

git status git diff [path] git diff HEAD path git add path

git reset HEAD path

git commit -a

git reset --soft HEAD^ git reset --hard HEAD^

git clean

**Examining History:** 

git log [path] git log [from[..to]] --stat

-S'pattern' git blame [file]

Remote repositories - remotes:

git fetch [remote] git pull [remote] git push [remote] git remote -v

git remote add remote name url

**Branches:** 

git checkout branch -b branch git branch git merge branch

Tags: git tag name [revision]

-1 [pattern]

Add file or files in directory recursively

Add parts of files

Remove file or directory from the working tree

Force deletion of file(s) from disk Move file or directory to new location Overwrite existing destination files

Restore file from current branch or revision Overwrite uncommitted local changes

Show status of the working tree

Show diff of changes in the working tree Show diff of stages and unstaged changes

Stage file(s) for commit Unstage file for commit

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

Automatically stage all modified files

Undo commit & keep changes in the working tree

Reset the working tree to the last commit Clean unknown files from the working tree

View commit log, optionally for specific path View commit log for a given revision range

List diffstat for each revision

Search history for changes matching pattern Show file annotated with line modifications

Fetch changes from a remote repository

Fetch and merge changes from a remote repository

Push changes to a remote repository

List remote repositories

Add remote to list of tracked repositories

Switch working tree to branch

Create branch before switching to it

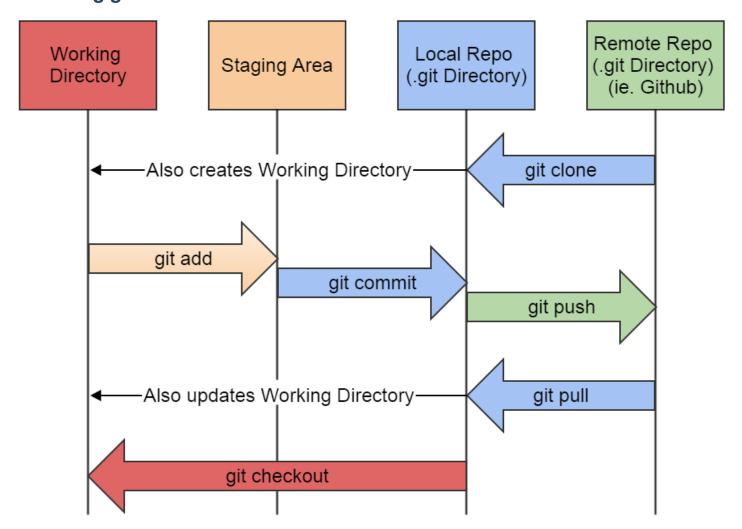
List local branches

Merge changes from branch into current branch

Create tag for a given revision

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 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>