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 path Stage file or files in directory recursively -p path Stage parts of files git rm path Remove file or directory from the working tree git mv path destination Move file or directory to new location git checkout [rev] file Restore file from current branch or revision Working tree: git status Show status of the working tree git diff [path] Show diff of changes in the working tree git diff HEAD path Show diff of stages and unstaged changes git reset HEAD path Unstage file for commit git commit Commit files that have been staged (via git-add) Automatically stage all modified files -a 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 path git log [from[..to]] View commit log for a given revision range List diffstat for each revision --stat -S'pattern' Search history for changes matching pattern Show file annotated with line modifications git blame [file] Remote repositories: 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 Add remote to list of tracked repositories git remote add remote name url **Branches:** git checkout branch Switch working tree to branch -b branch Create branch before switching to it git branch List local branches git merge branch Merge changes from branch into current branch

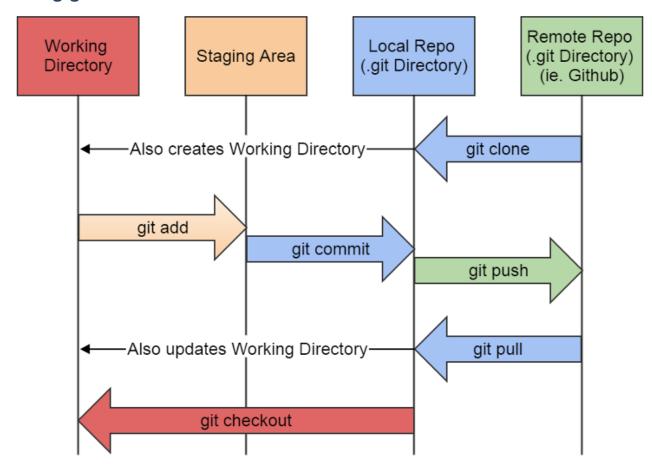
Tags:

git tag name [revision] -1 [pattern]

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 repository:

git pull

<make changes>

 $\mathbf{git} \; \mathbf{add} \; \textbf{-} \mathbf{p} \; glob$ 

git commit

git push

## **Helpful Hints:**

use git-number to save typing create aliases and use them use ssh keys with a passphrase 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-kevs/

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 https://cygwin.com/