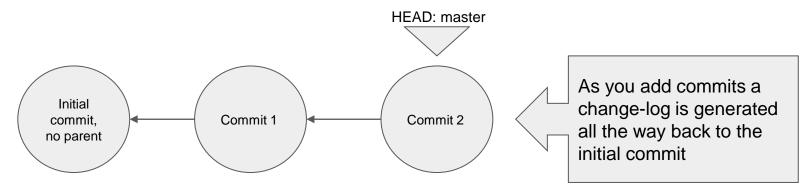
JSC270 Lab 3

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Repository

GIT

- 1. Commit objects, each containing:
 - A set of files reflecting the project at the given point in time
 - References to the parent commit objects (unless it's the first commit)
 - A SHA1 name to has aspects of the commit (so an identical commit will have the same name)
- 1. References to commit objects (heads)
 - By default this will be master, we'll talk about changing it



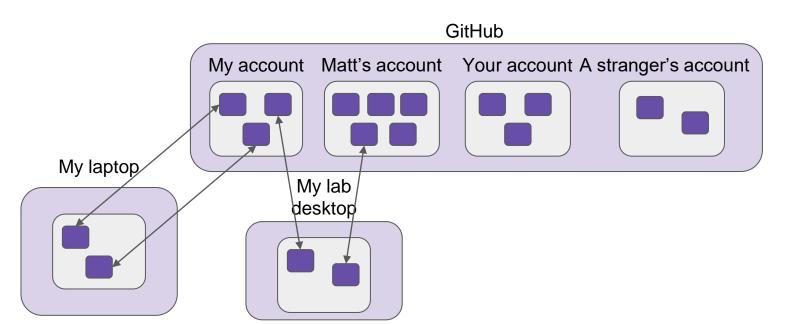
Reference: https://www.sbf5.com/~cduan/technical/git/git-1.shtml

GIT: Basic commands and concepts

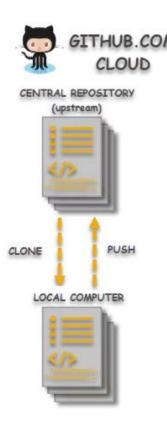
git add <files> ## add files to your repo

git commit -m "about my commit" ## commit the changes you've made

git push -u origin master ## push the changes you've made to a remote repository (i.e. GitHub)



GIT: Cloning



git clone <repo web address> ## create a local copy of a repo git pull ## pull updates from central repo to local repo

Reference: https://www.toolsqa.com/git/difference-between-git-clone-and-git-fork

Typical Git workflow

git clone <repo web address> ## create a local copy of a repo

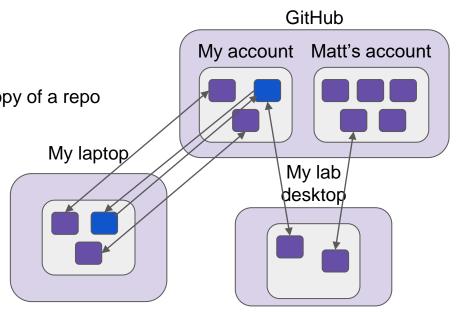
~Update and create some files~

git add -u

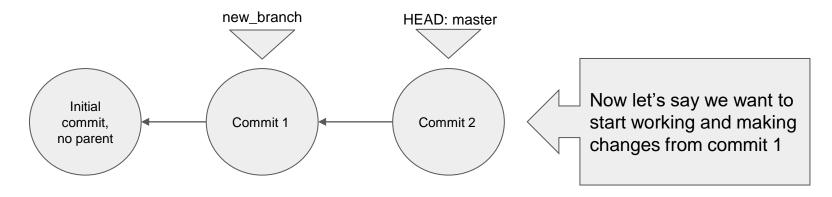
git commit -m "updated and created some files"

git push –u origin master

git pull



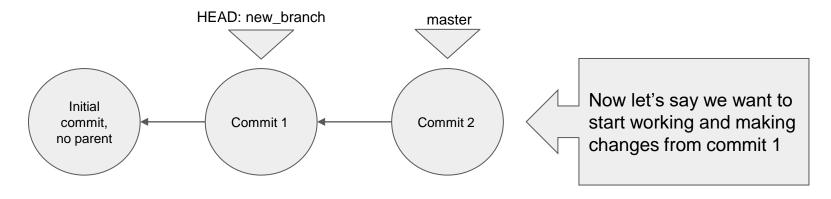
BRANCHES: creating a branch



git branch new_branch HEAD^

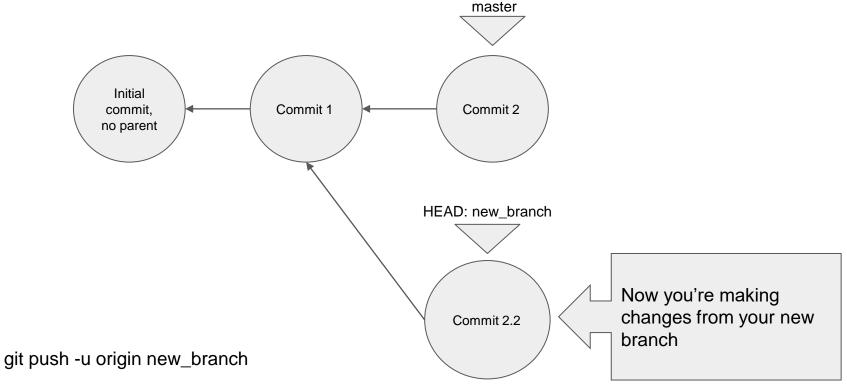
You can reference commit1 by HEAD^ because it's the parent to the commit that HEAD is pointing to. Alternatively, you can include the hash (particularly if you want to point to a commit that isn't a parent of your current HEAD commit)

BRANCHES: switching between branches



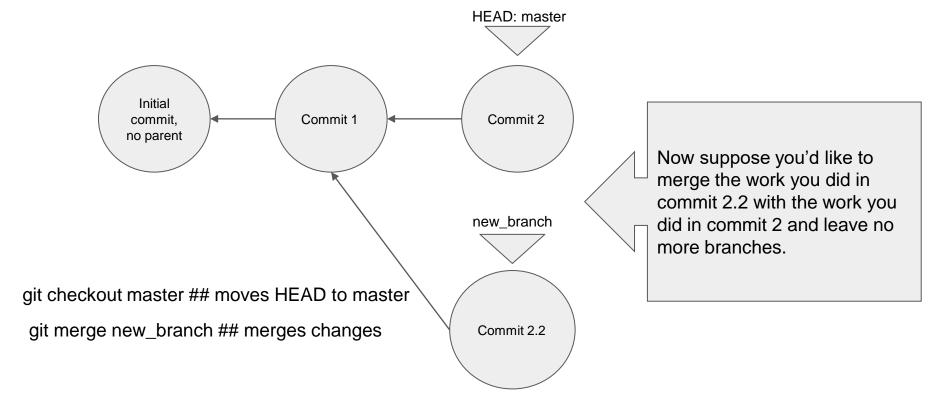
git -b checkout new_branch

BRANCHES: new commit



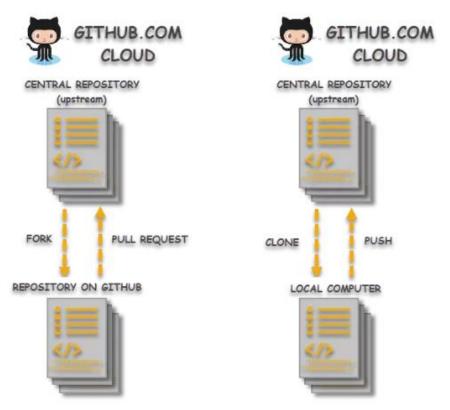
Reference: https://www.sbf5.com/~cduan/technical/git/git-1.shtml

BRANCHES: merging branches



Reference: https://www.sbf5.com/~cduan/technical/git/git-1.shtml

CLONING vs FORKING



Reference: https://www.toolsqa.com/git/difference-between-git-clone-and-git-fork