git

because we like silly names | session 2(intermediate)

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Last session

- Introduction
- Initialize a git repo
- Add a file/all files
- Commit a file
- Status of a project
- Update a file
- Log of commits
- GIT Branch



Last session

Commands:Local

- git init
- git add <FILENAME>
- git commit -m "MESSAGE"
- git add -u
- git status
- git log
- git log –oneline
- git log –graph –decorate –oneline

Last session

Commands:GitHub

- git add remote origin <REMOTE URL>
- git remote -v
- git push -u origin master
- git push



clone, pull

```
If you have to download the repo from GitHub

git clone <REMOTE_URL>

git clone https://github.com/psachin/octo.git

If you want to sync local repo with GitHub

git pull
```



GIT branch: What is that?

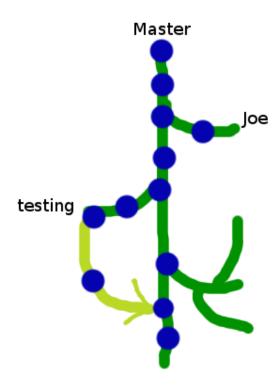


Figure 1: Git branches



Know your current working branch

git branch



Create a new branch

git branch devel



Switch branch

```
git checkout <BRANCH_NAME>
git checkout devel
```



Merge branch

Switch to target branch
git checkout master
Merge
git merge devel



Push branch

git push origin devel



Hosting your code

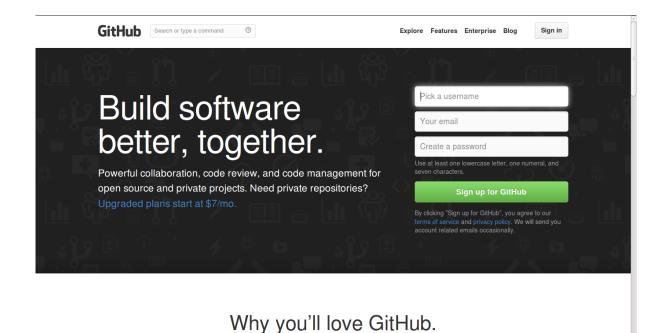


Figure 2: GitHub

Powerful features to make software development more collaborative.





Collaborate using GitHub

- fork
- clone
- commit & push
- pull request



Reset/Reflog/Revert

- Reset
- Reflog
- Revert



Get back to old commit

• With no history

```
git reset --hard <COMMIT HASH>
```



Hosting sites

- github.com
- gitlab.com
- bitbucket.org
- sourceforge.net





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Reference

• Pro Git

Links

http://git-scm.com/

