

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 diff <FILENAME>`
- `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?

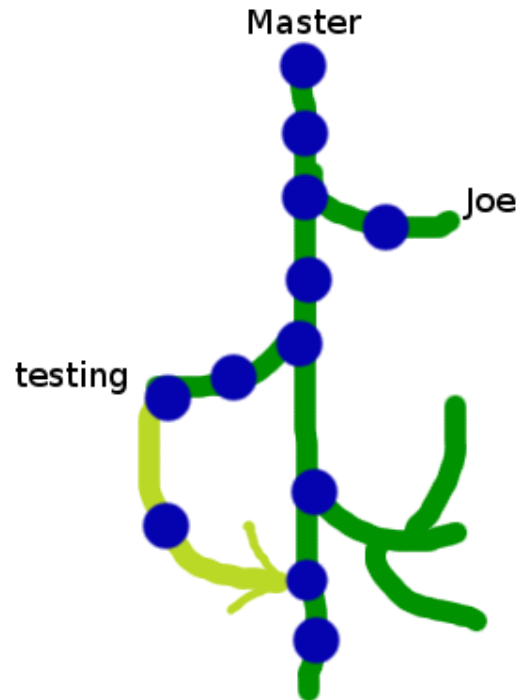


Figure 1: Git branches



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
```

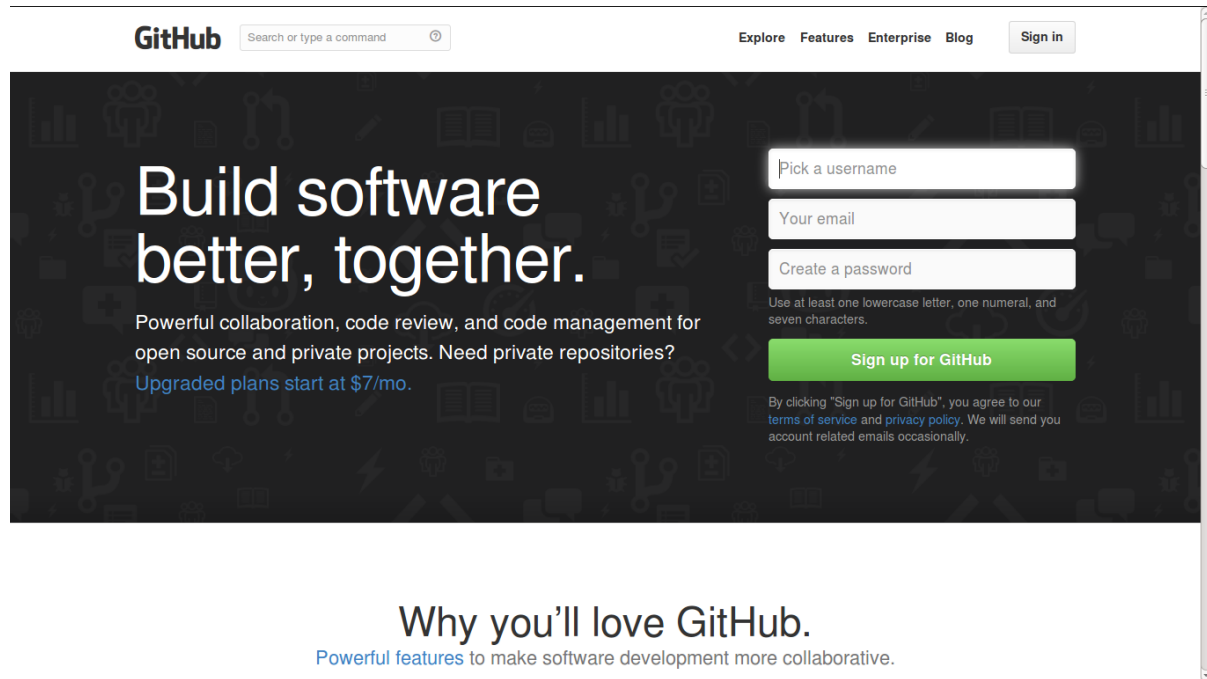


Push branch

```
git push origin devel
```



Hosting your code



The screenshot shows the GitHub homepage with a dark background and various icons. The main heading is "Build software better, together." followed by the text "Powerful collaboration, code review, and code management for open source and private projects. Need private repositories? Upgraded plans start at \$7/mo." On the right side, there is a sign-up form with three input fields: "Pick a username", "Your email", and "Create a password". Below the password field, there is a note: "Use at least one lowercase letter, one numeral, and seven characters." and a green "Sign up for GitHub" button. At the bottom of the sign-up section, there is a disclaimer: "By clicking 'Sign up for GitHub', you agree to our terms of service and privacy policy. We will send you account related emails occasionally." Below the main heading, there is a section titled "Why you'll love GitHub." with the text "Powerful features to make software development more collaborative."

GitHub

Search or type a command

Explore Features Enterprise Blog Sign in

Build software better, together.

Powerful collaboration, code review, and code management for open source and private projects. Need private repositories? Upgraded plans start at \$7/mo.

Pick a username

Your email

Create a password

Use at least one lowercase letter, one numeral, and seven characters.

Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our terms of service and privacy policy. We will send you account related emails occasionally.

Why you'll love GitHub.

Powerful features to make software development more collaborative.

Figure 2: GitHub



Collaborate using GitHub

- fork
- clone
- commit & push
- pull request



Reset/Reflog/Revert

- Reset
- Reflog
- Revert



Get back to old commit hash

With no history

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

With history

```
git revert <COMMIT HASH>
```



Hosting sites

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





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