
▶ I. Git Introduction

Codeschool Notes

▶ II. Commits and Resets

▼ III. Cloning And Branching

▼ A. Collaborating Workflow

- 1. Greg pushes his local repo to github
 - 2. Jane finds the repo url on github
 - 3. then she clones it
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▼ B. How to Clone

▼ 1. **git clone** <https://github.com/username/repositoryname.git>

- a) this clones the repository to **repositoryname.git**
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▼ 2. **git clone** <https://github.com/username/repostioryname.git> **some-other-name**

- a) this gives the repository a name of **some-other-name** when you download it
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▼ 3. what does clone do?

- a) downloads the entire repository into a new directory
 - ▼ b) adds the '**origin**' remote, pointing it to the clone URL
 - (1) (remember **git remote -v** lists all the remotes we have)
 - c) check out the initial branch (usually **master**)
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▼ C. Branching

▼ 1. **git branch**

- a) lists all branches that currently exist
 - b) also tells you what branch you are on using a * in front of the name
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▼ 2. **git branch some-name**

- a) creates a branch called **some-name** that is a copy of THE BRANCH YOU ARE ON
 - b) does NOT automatically put you on the new branch
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▼ 3. to get to the new branch use **git checkout some-name**

- a) this switches you to the new branch
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▼ D. Merging

- 1. you've done work on your branch, but now you want to merge it back into the main
 - 2. **git checkout master** (or whatever branch you want to merge TO)
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▼ 3. **git merge some-name**

- a) this merges **some-name** INTO **master**
- b) you merge INTO the branch you are CURRENTLY ON

▼ 4. FAST FORWARD MERGE

- ▼ a) if you did nothing at all from the time you created the branch

- (1) no problems
- (2) this is called a FAST FORWARD merge (REMEMBER THIS)

▼ (3) **git branch -d some-name**

- i) deletes branch

▼ 5. **RECURSIVE MERGE**

- ▼ a) how does this happen?

- (1) you create a new branch ie, **experimental**
- (2) then you do some work on the branch, you change/add files etc
- (3) then you switch to the master and do work on that
- (4) then you switch back to experimental and do more work
- (5) THEN you merge, and suddenly you are in a text editor

- ▼ b) if everything is cool

- (1) that is, nothing you wrote in the **experimental** branch conflicts with the master
- (2) then all you have to do is sign off on an edit message
- (3) the message will say “please enter a message saying why you are merging blah blah”
- c) the log will then say “at this point, the master and the experimental became one branch”

► IV. Fixing Upstream Merges
