
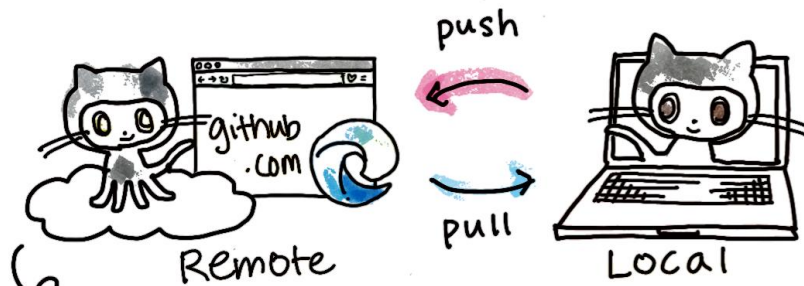
 Git = a distributed version control system for tracking changes in your code history

Introduction to GitHub

GitHub = a cloud-based hosting where you can manage your Git repositories 

★ Your first project with Git + GitHub ★



① On github.com, Sign up / Sign in + Create a repository.



⑥ `git commit -m "first commit"`

⑦ `git remote add origin http://github.com/-.git`

⑧ `git push -u origin main`

② Download + install Git
Then, set up your local Git profile

`git config --global ...`

② `cd my project`

③ `git init`

④ `git status`

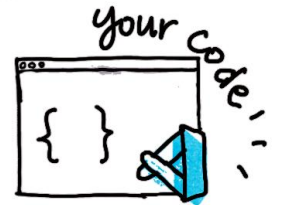
⑤ `git add.`

⑨ To add more changes:

▸ `git add.`

▸ `git commit -m "typo fix"`

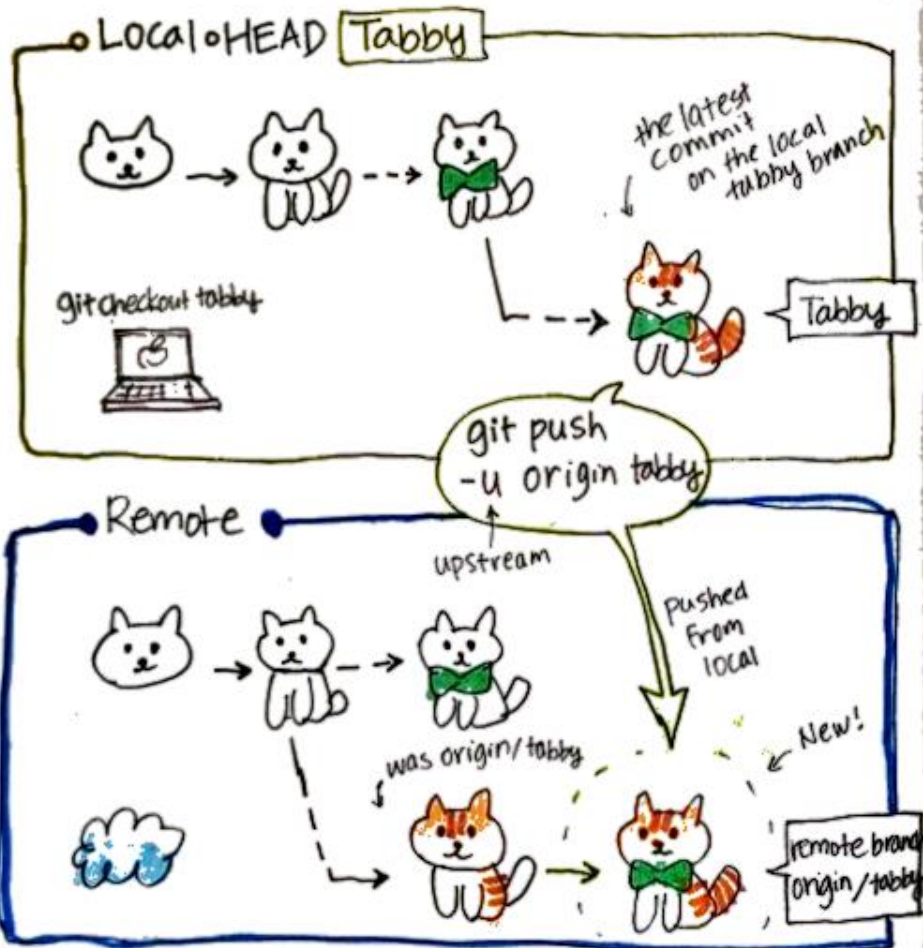
▸ `git push`



git Push

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♥ git push transfers your commits from your local repo to a remote repo.



🐾 Now the tabby branch on local + remote are sync'd!

♥ git push

git push <remote> <branch>
e.g. origin e.g. tabby

📁 push the specified branch w/ all commits

git push -u <remote> <branch>
↳ --set-upstream

📁 the -u flag sets up the association between your branch + the remote branch explicitly. you don't need it once you've done!

git push -f <remote> <branch>
↳ --force

📁 force the push, even if it results in a non-fast-forward merge. just ignore + push!

git push --all <remote>

📁 push all of your local branches!



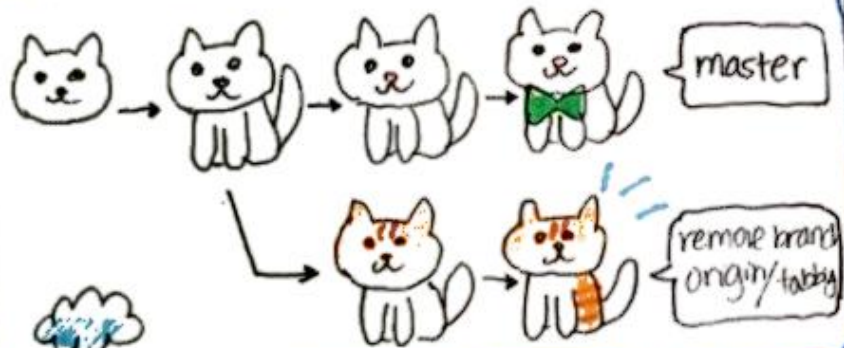
git Pull

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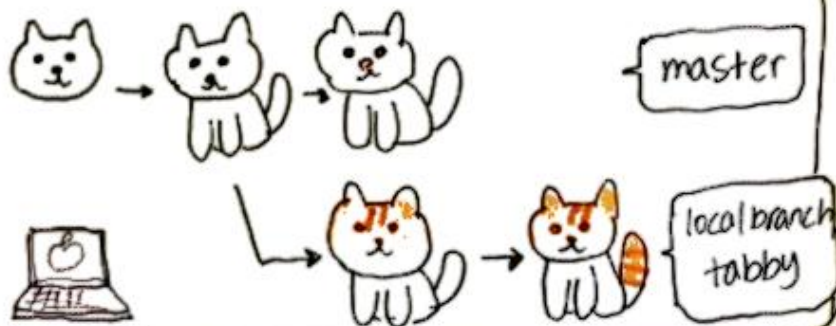
Purr

git pull updates
your current
HEAD branch w/
the latest Δ s
from remote

Remote

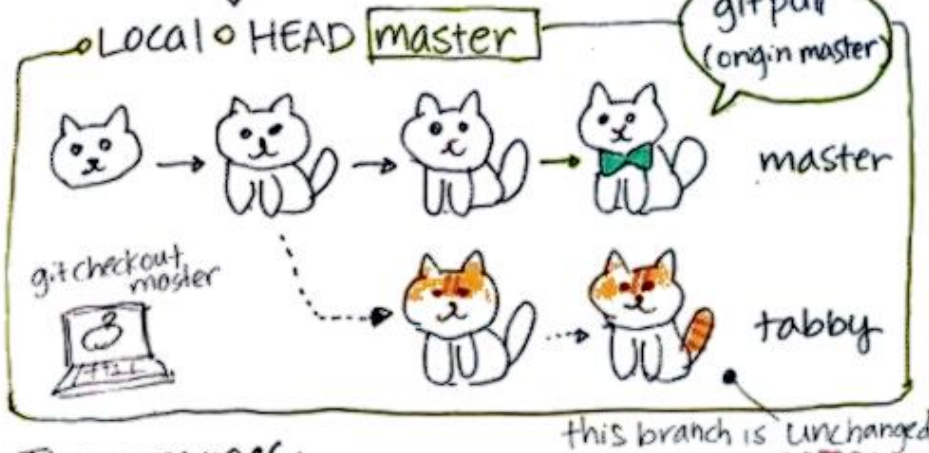


Local



Now I'm going to 'git pull' to update a branch!

When the current
branch is master



✓ This is same as:

git fetch origin
git merge origin/master

When the current branch is tabby



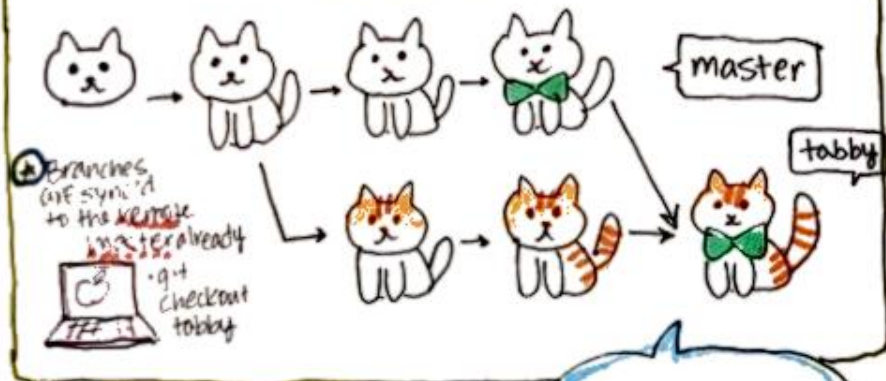
git merge

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meow! ge

♥ git merge incorporates changes into the current branch

Local HEAD tabby



git merge master

git meow-ge !!!



* merge is like having 2 parents & 1 resulting child!

* rebase adds all new Δs on top of one parent.

PAWSOME!

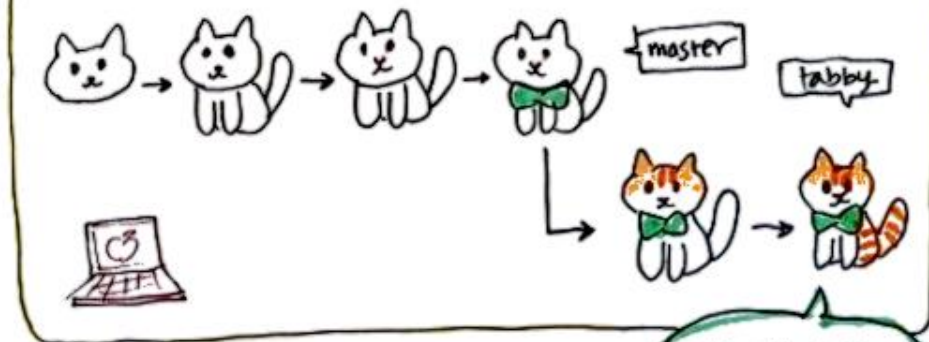
git rebase

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♥ git rebase moves a branch from one commit to another.

Local HEAD tabby



git rebase master

Cleaner commit history!

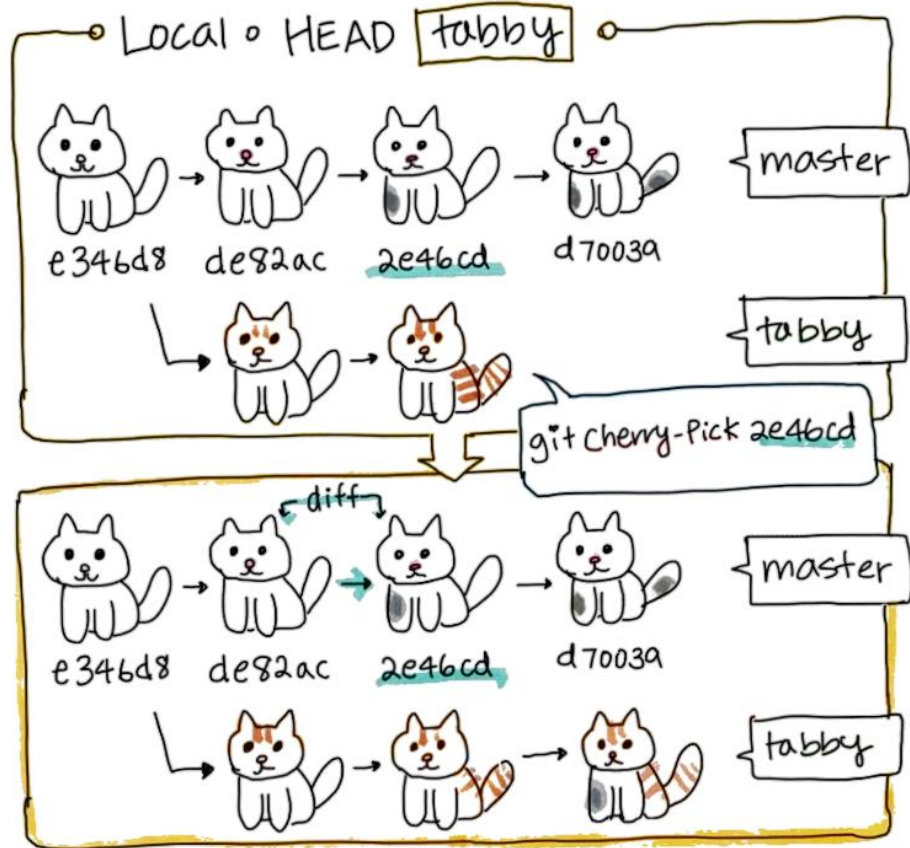
If you want to rebase from the remote master instead of local, do either:

- \$ git fetch origin
- \$ git rebase origin/master
- or
- \$ git pull --rebase origin master

git cherry-pick

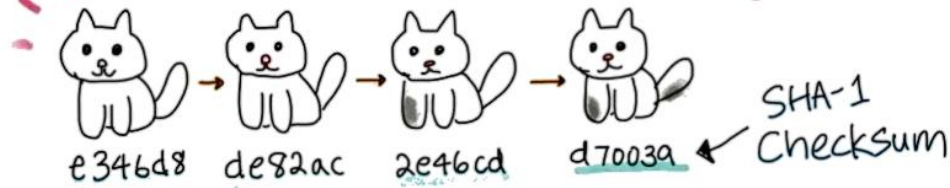
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♥ git cherry-pick lets you grab some commits from one branch & apply it into another branch!



git log

♥ git log lets you view the commit history
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♥ git log prints out

```
Commit e346d8
Author: Little-princess Leia <leia@kitty.cat>
Date: Sun Sep 23 17:30:42 2018 -0700
Add body
Commit de82ac
Author: Jamie <jam@kitty.cat>
Date:
```

Simpler log with:

♥ git log --oneline

```
e346d8 Add body
de82ac Edit nose
2e46cd Add gray dot on leg
```

