git Push

(puss)

@girlie_mac

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

LOCAL ● HEAD [Tabby]

the latest commit on the local tabby branch

git checkout tabby

[Tabby]

git push -u origin tabby

Remote

upstream

Pushed from local

was origin/tabby

New!

remote branch origin/tabby

Now the tabby branch on local + remote are sync'd!
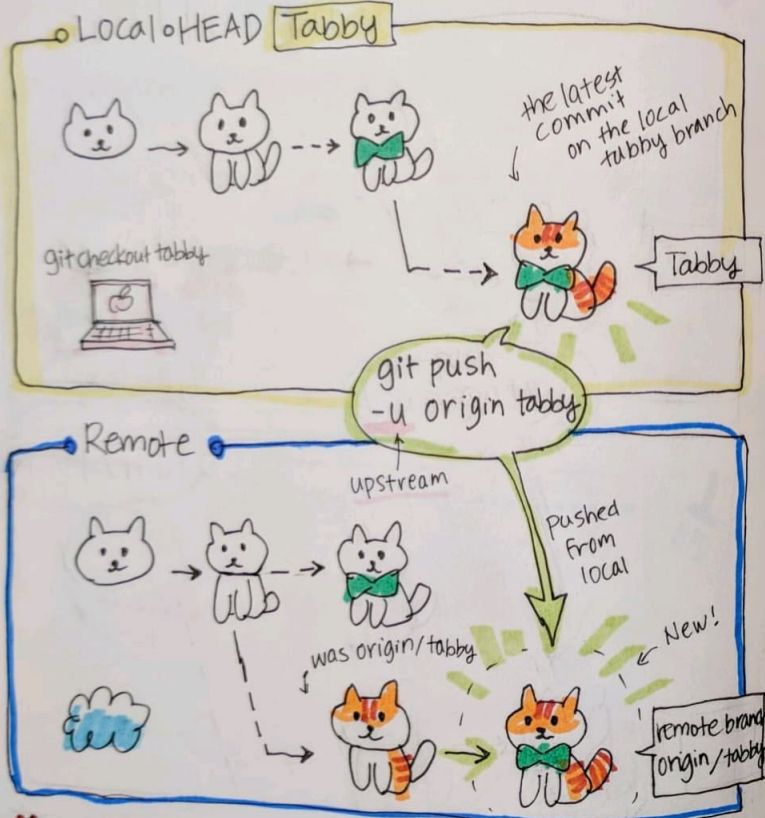
💙 git push

🟥 **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.
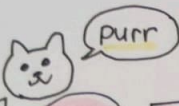 Just ignore + push!

🟥 **git push --all <remote>**
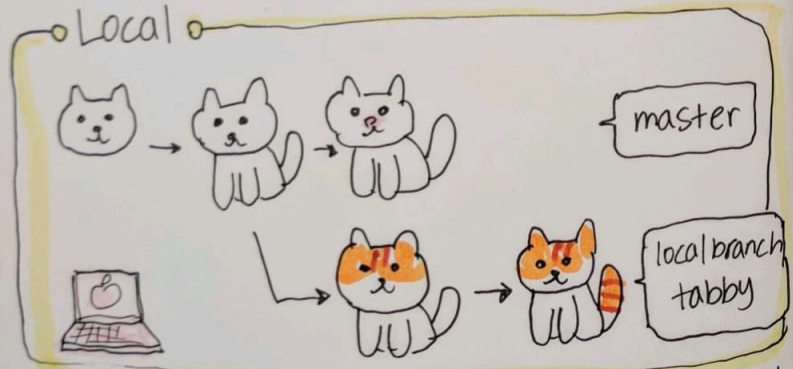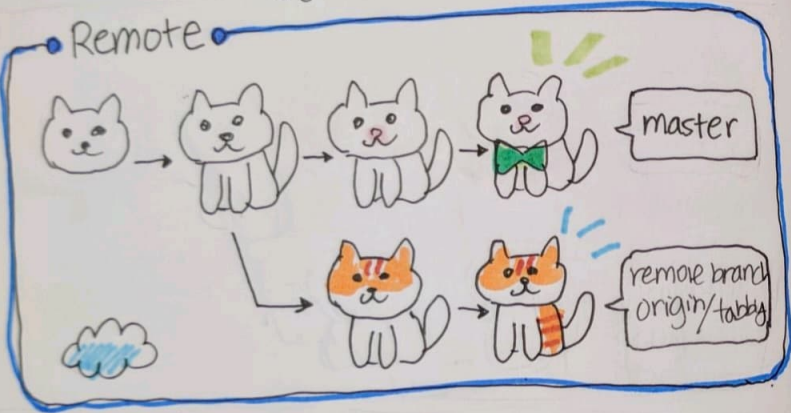
  push all of your local branches!

git pull
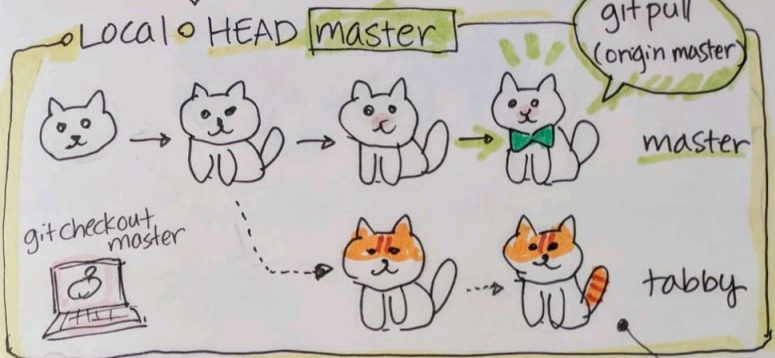
"Purr"

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

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Remote

(master)

(remote branch origin/tabby)

Local

(master)

(local branch tabby)

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

When the current branch is master

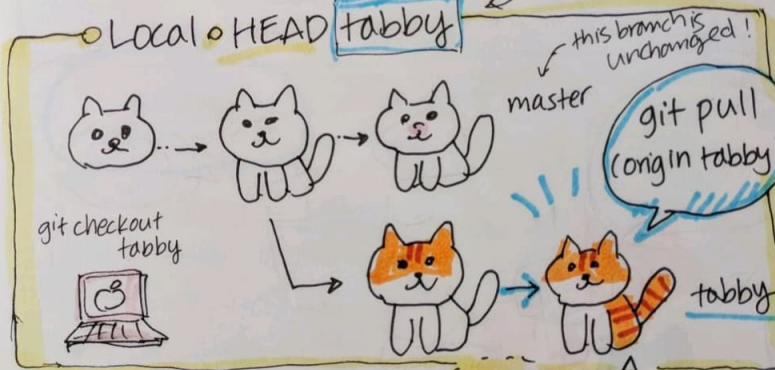Local → HEAD **master**

git pull (origin master)

master

git checkout master

tabby

this branch is unchanged

♥ This is same as:
git fetch origin
git merge origin/master

When the current branch is tabby

Local → HEAD **tabby**

this branch is unchanged!

master

git checkout tabby

git pull (origin tabby)

tabby

♥ Same as:
git fetch origin
git merge origin/tabby

git fetch

git merge origin/tabby

tracking branch

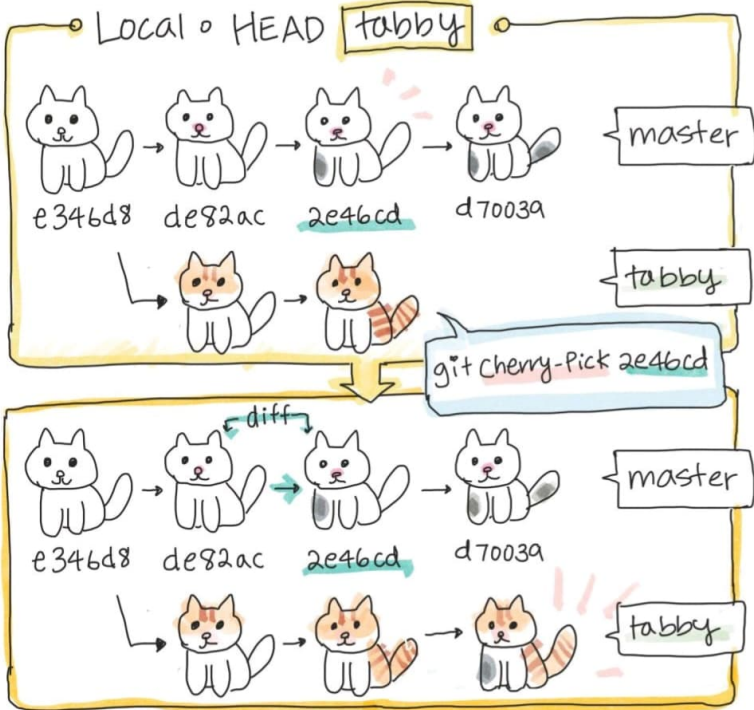# git cherry-pick

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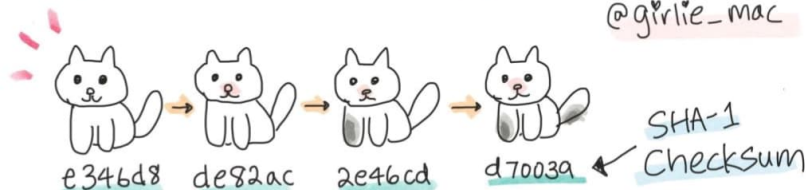

Local ∘ HEAD [tabby]

master
e346d8 de82ac 2e46cd d70039

tabby

git cherry-pick 2e46cd

diff

master
e346d8 de82ac 2e46cd d70039

tabby

---

git log

♥ git log lets you view the commit history

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e346d8 de82ac 2e46cd d70039

SHA-1 Checksum

💲 git log prints out

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

git cherry-pick

♥ this SHA into the tabby branch

Simpler log with:

💲 git log --oneline

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

git Pull

"Purr"

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

Remote
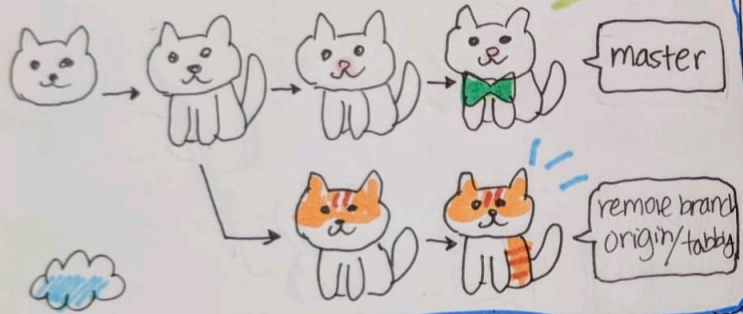
→ → → → master

→ → remote branch origin/tabby

Local

→ → → master

→ → → local branch tabby

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

When the current branch is master

Local • HEAD **master**
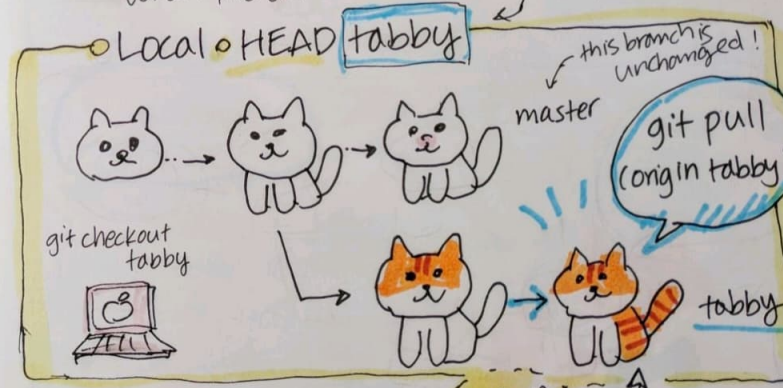
→ → → → git pull (origin master) → master

git checkout master

→ → tabby

this branch is unchanged

♥ This is same as:
  git fetch origin
  git merge origin/master

When the current branch is tabby

Local • HEAD **tabby**
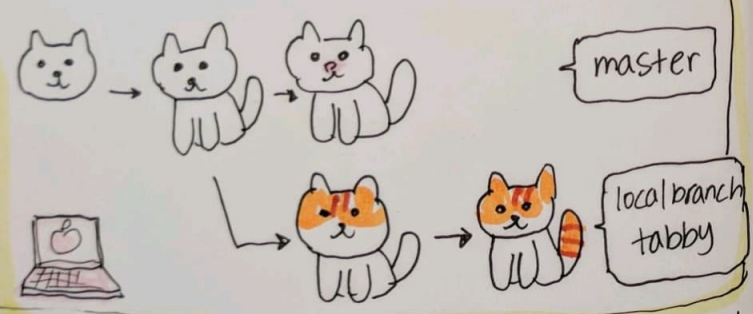
→ → → master

this branch is unchanged!

git checkout tabby

→ → git pull (origin tabby) → tabby
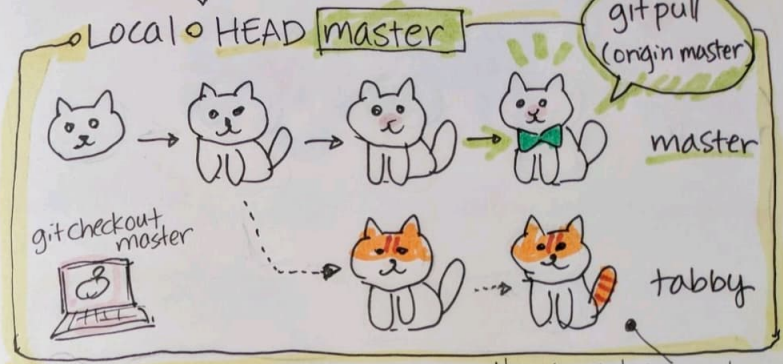
git fetch

git merge origin/tabby

tracking branch

♥ Same as:
  git fetch origin
  git merge origin/tabby

git merge

meow! ge

♥ git merge incorporates changes into the current branch.

○ LOCAL ○ HEAD [tabby] ○

[master]

[tabby]

⊛ Branches are sync'd to the remote master already.
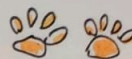· git checkout tabby
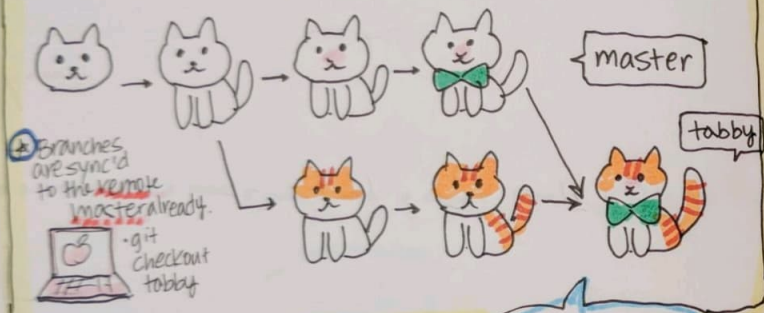
git merge master

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

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

○ LOCAL ○ HEAD [tabby] ○

[master]

[tabby]

✨ Cleaner commit history!

git rebase master

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

$ git fetch origin
$ git rebase origin / master

on

$ git pull --rebase origin master