Become an Open Source Contributor

Jaime Fernández

introductions

- who am i?
 - ME turned SE (never too late!), ~9 years of Python experience
 - NumPy core developer for last 2 years
- who are you? (ideally)
 - not new to Python, not new to NumPy (or your library of choice)
 - not new to Git, not new to GitHub

the moore-sloan 37.8 million grant

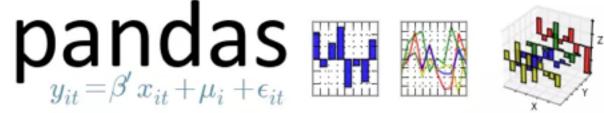


the python scientific stack

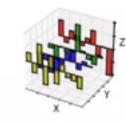




https://hg.python.org/cpython/







https://aithub.com/numpy/numpy



https://github.com/pydata/pandas

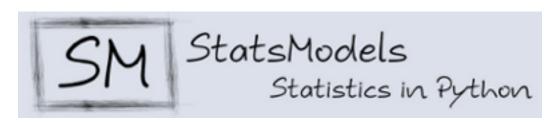


https://github.com/scipy/scipy



IP[y]: **IPython**

https://github.com/ipython/ipython



https://aithub.com/statsmodels/statsmodels



https://github.com/cython/cython



https://github.com/jupyter

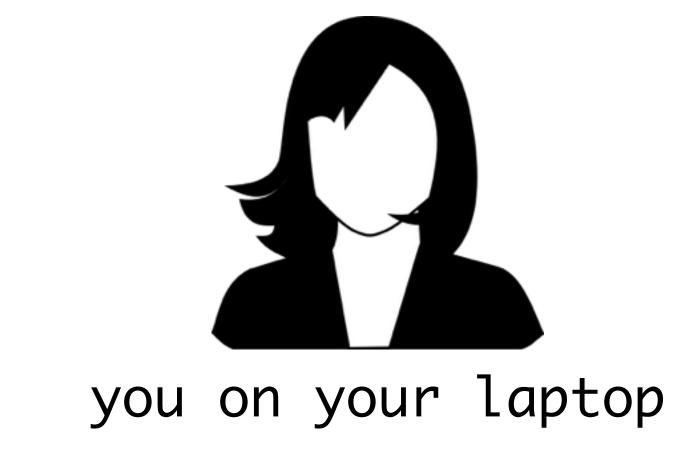
https://github.com/scikit-learn/scikit-learn

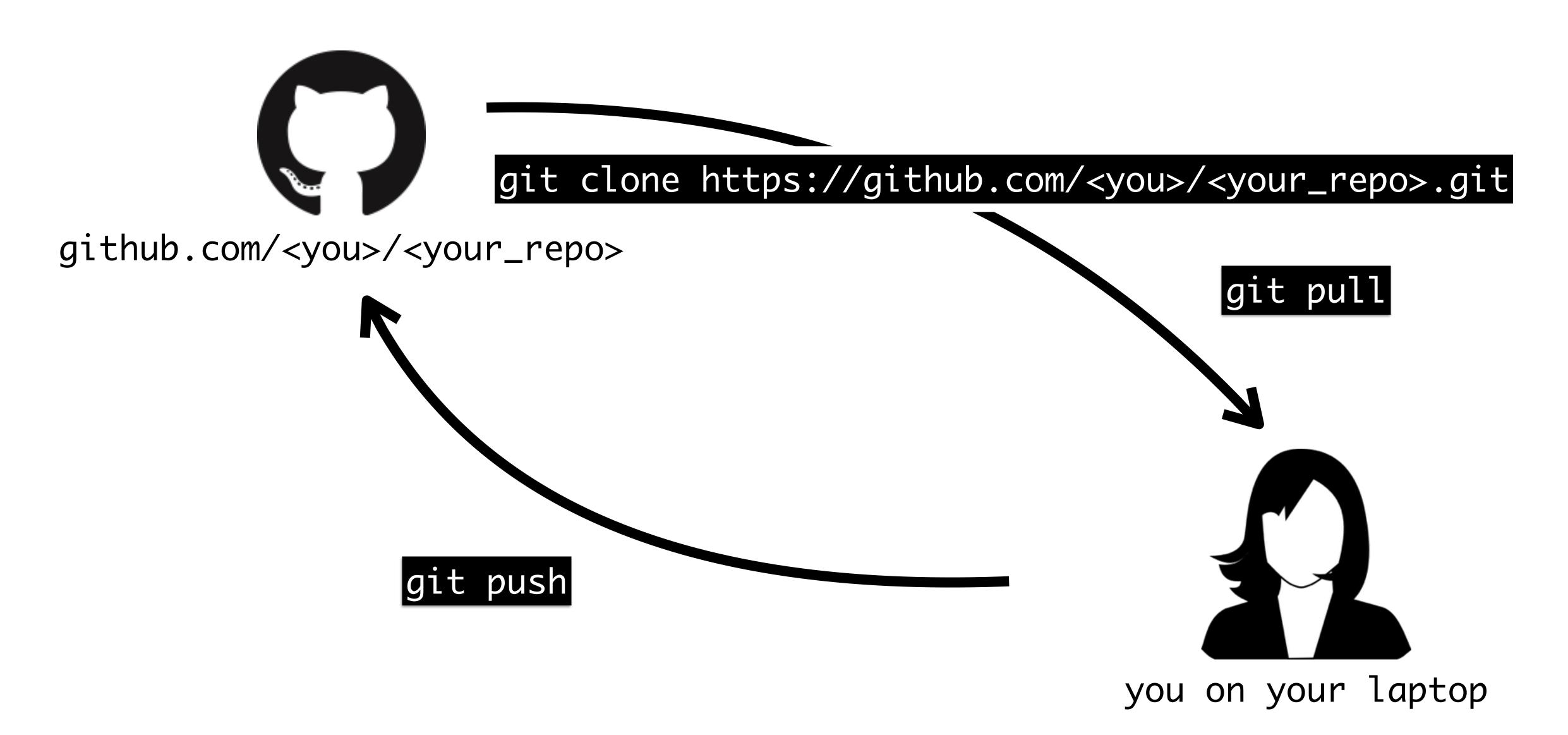
...and many more!

interacting with the community

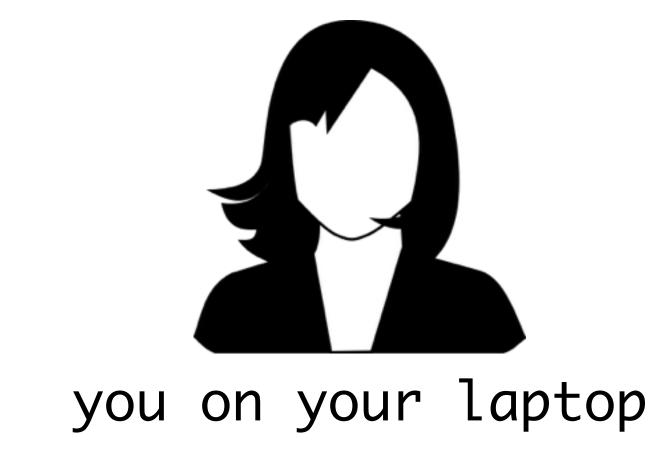
- mailing list
 - https://mail.scipy.org/mailman/listinfo/numpy-discussion
- chat room
 - https://gitter.im/numpy/numpy
- github repository (code, issues, pull requests)
 - https://github.com/numpy/numpy

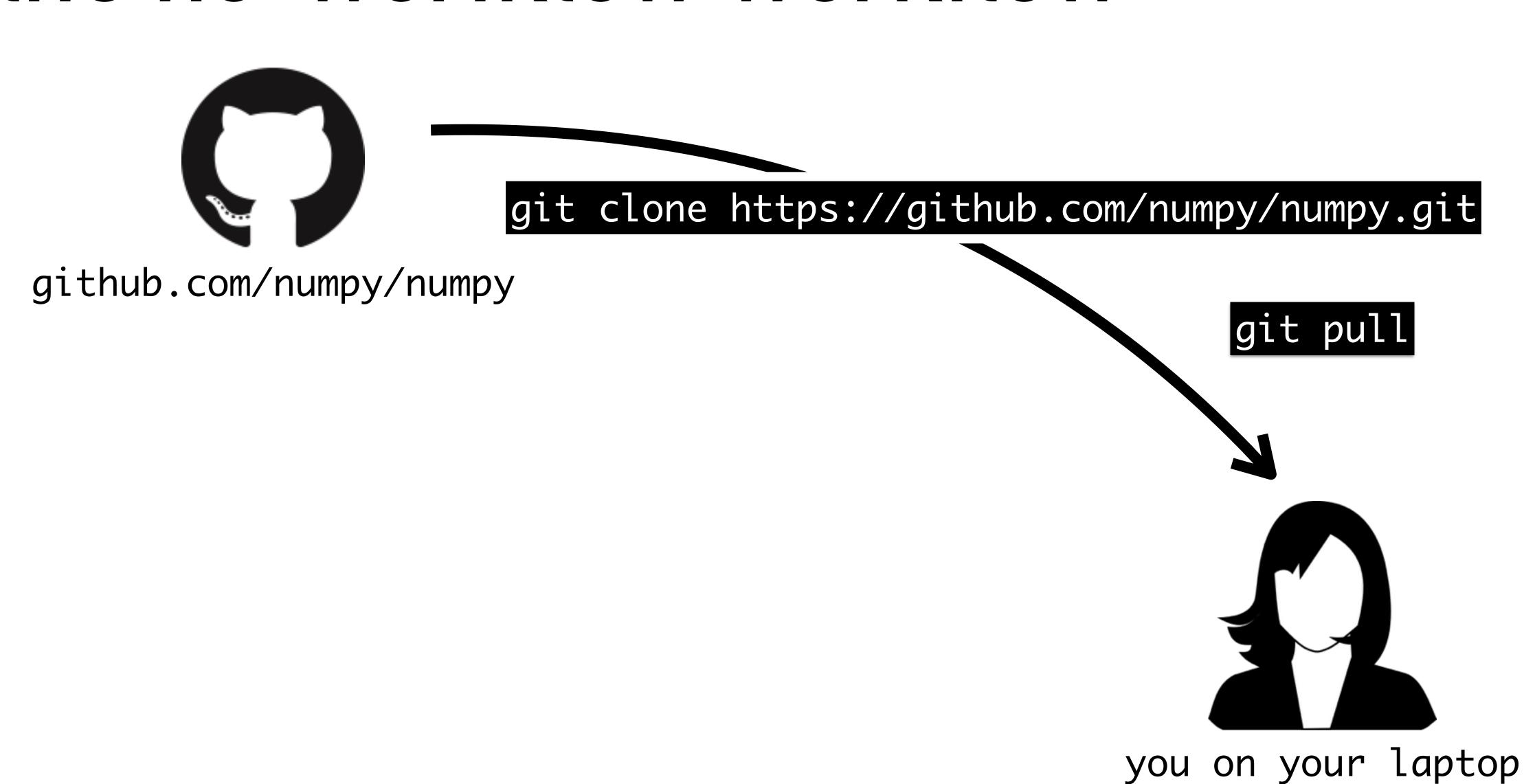


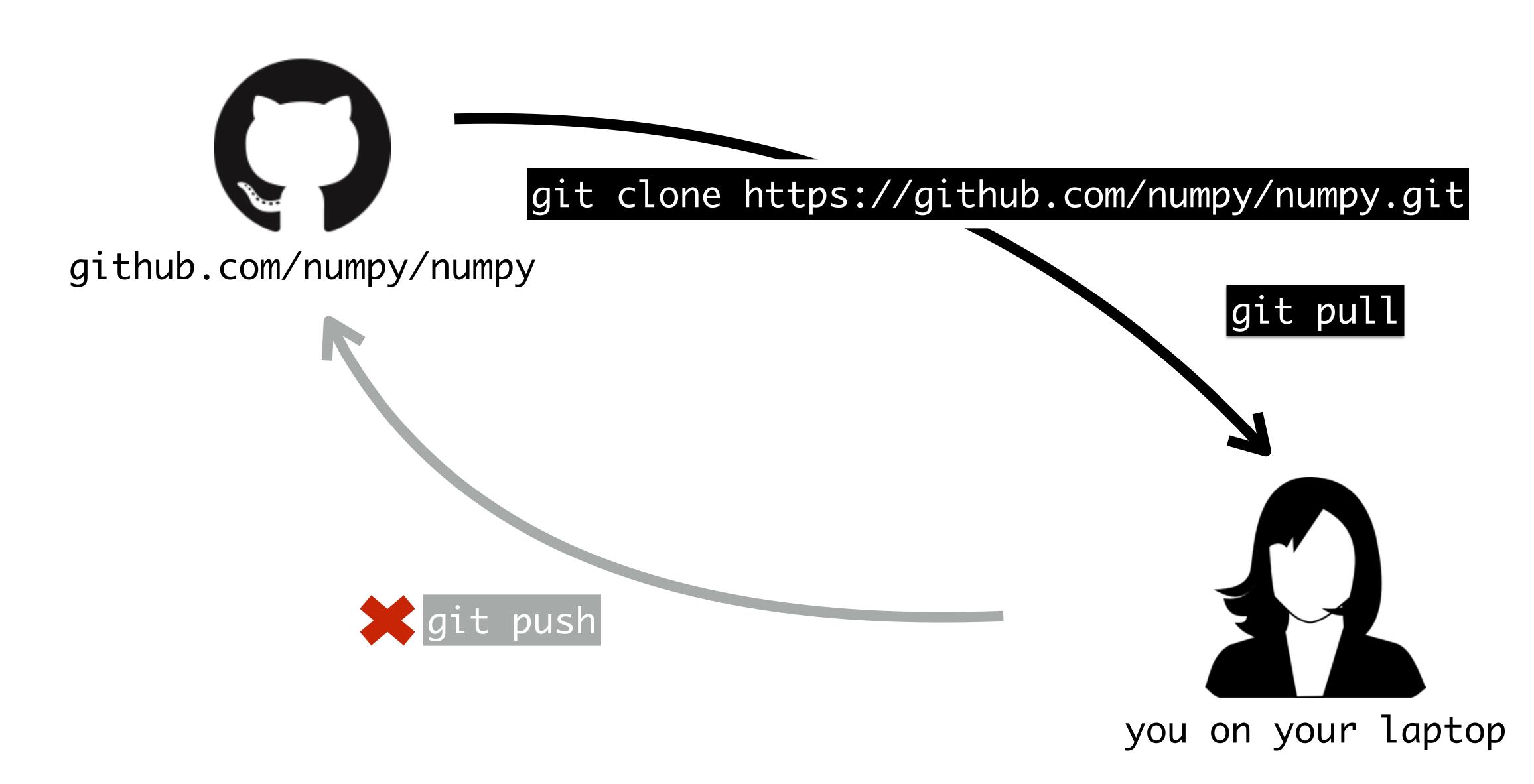










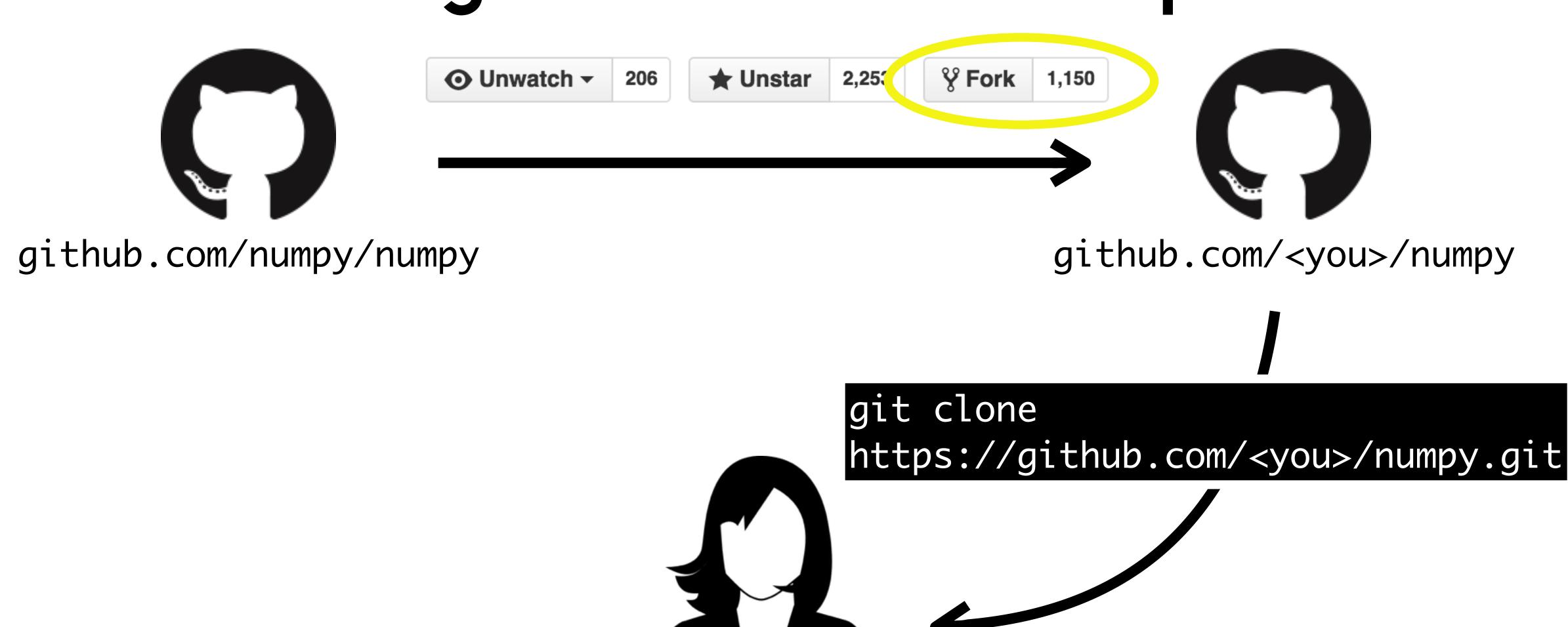




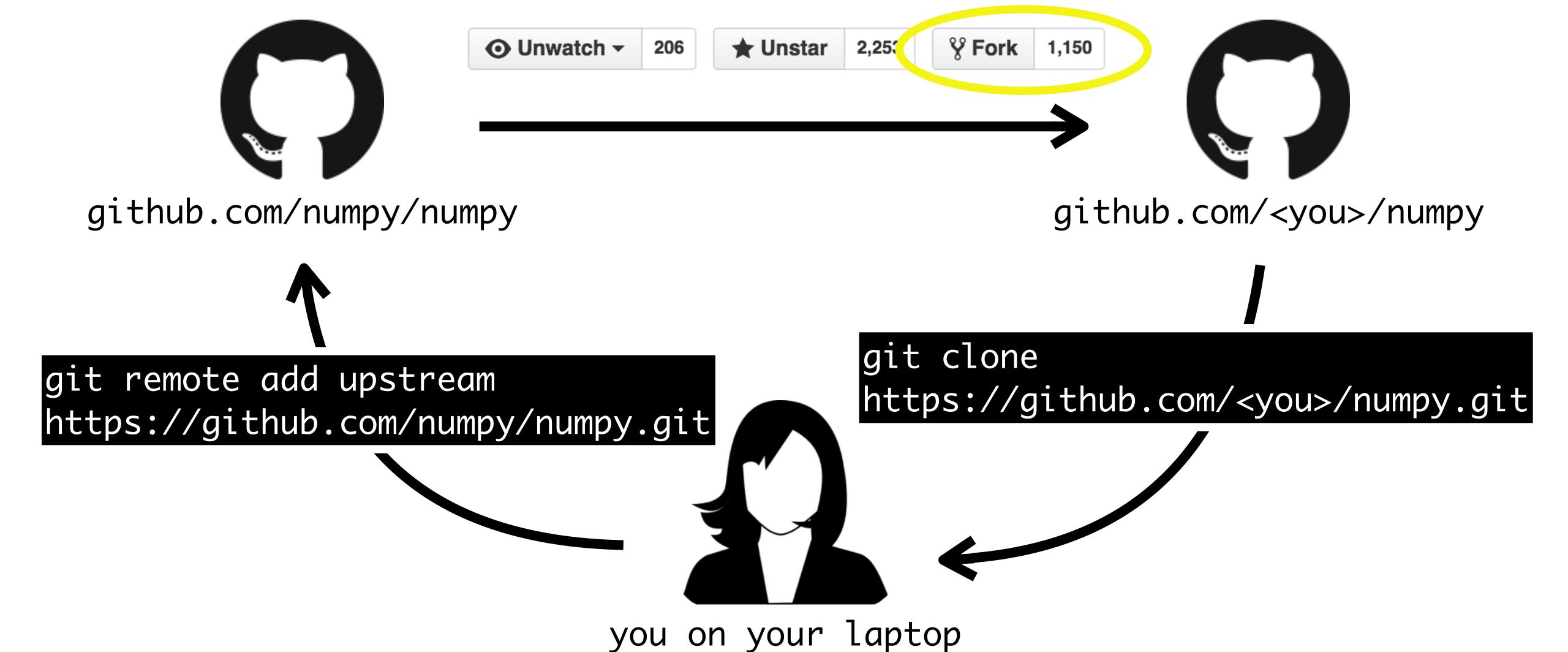








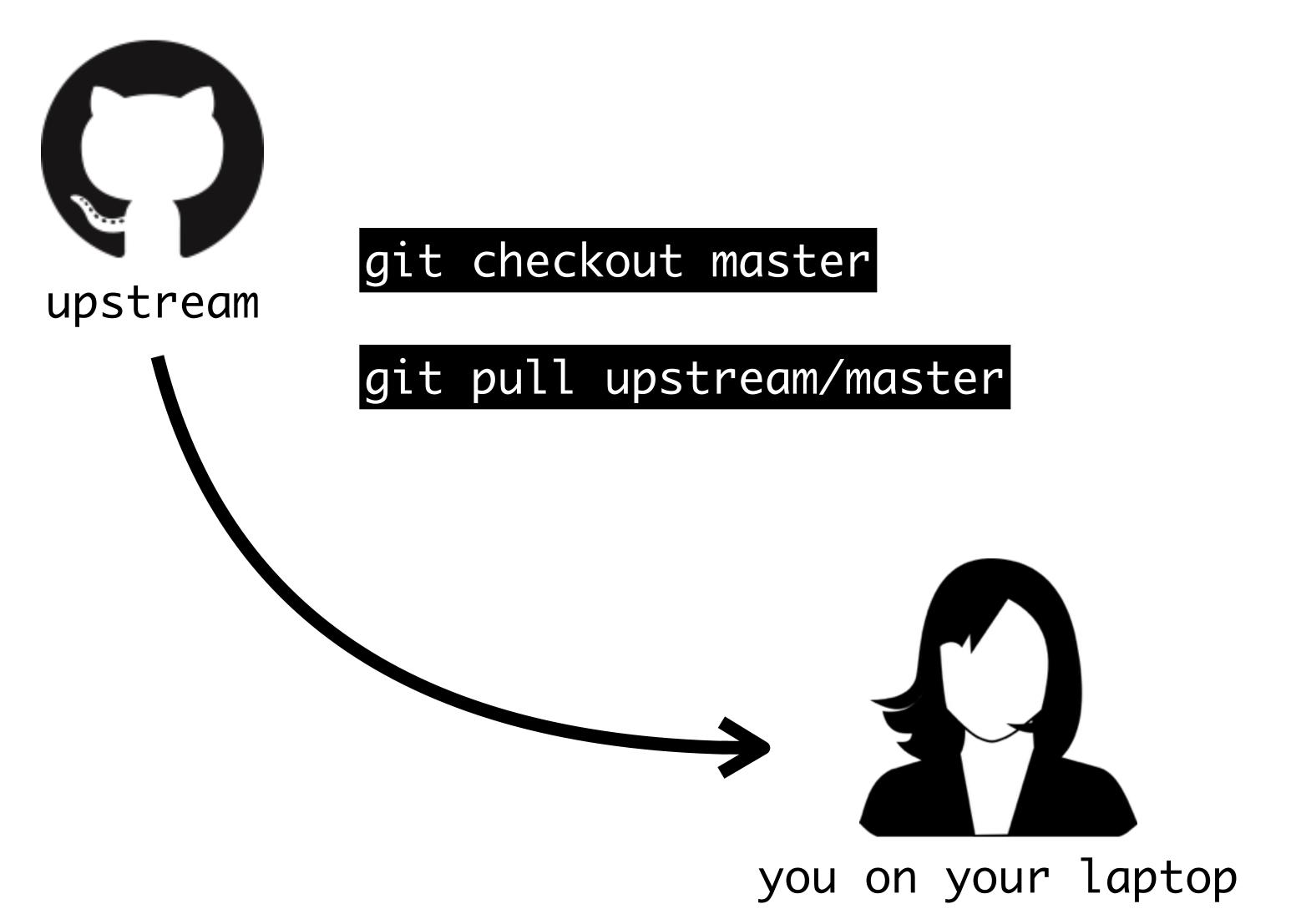
you on your laptop



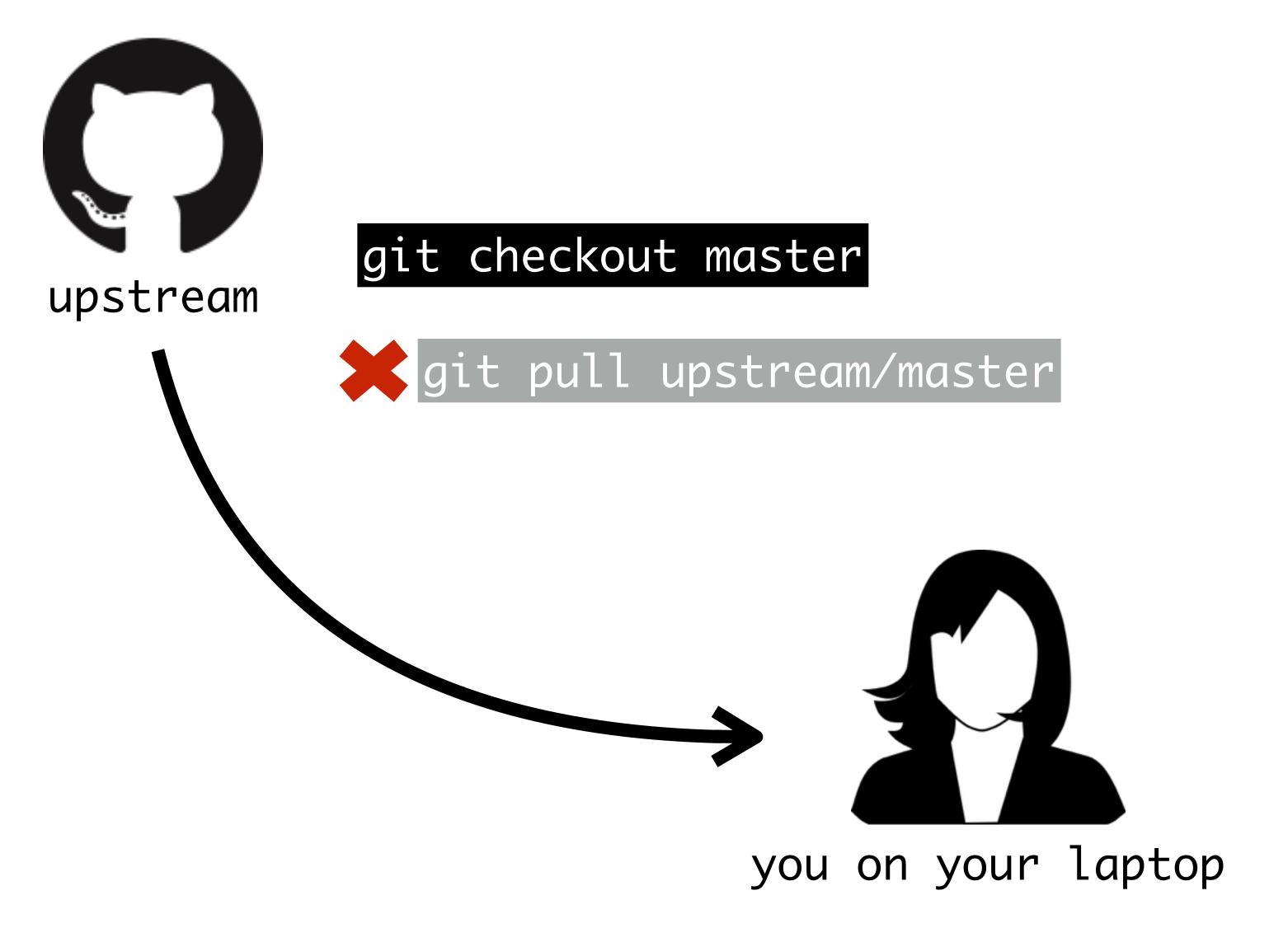




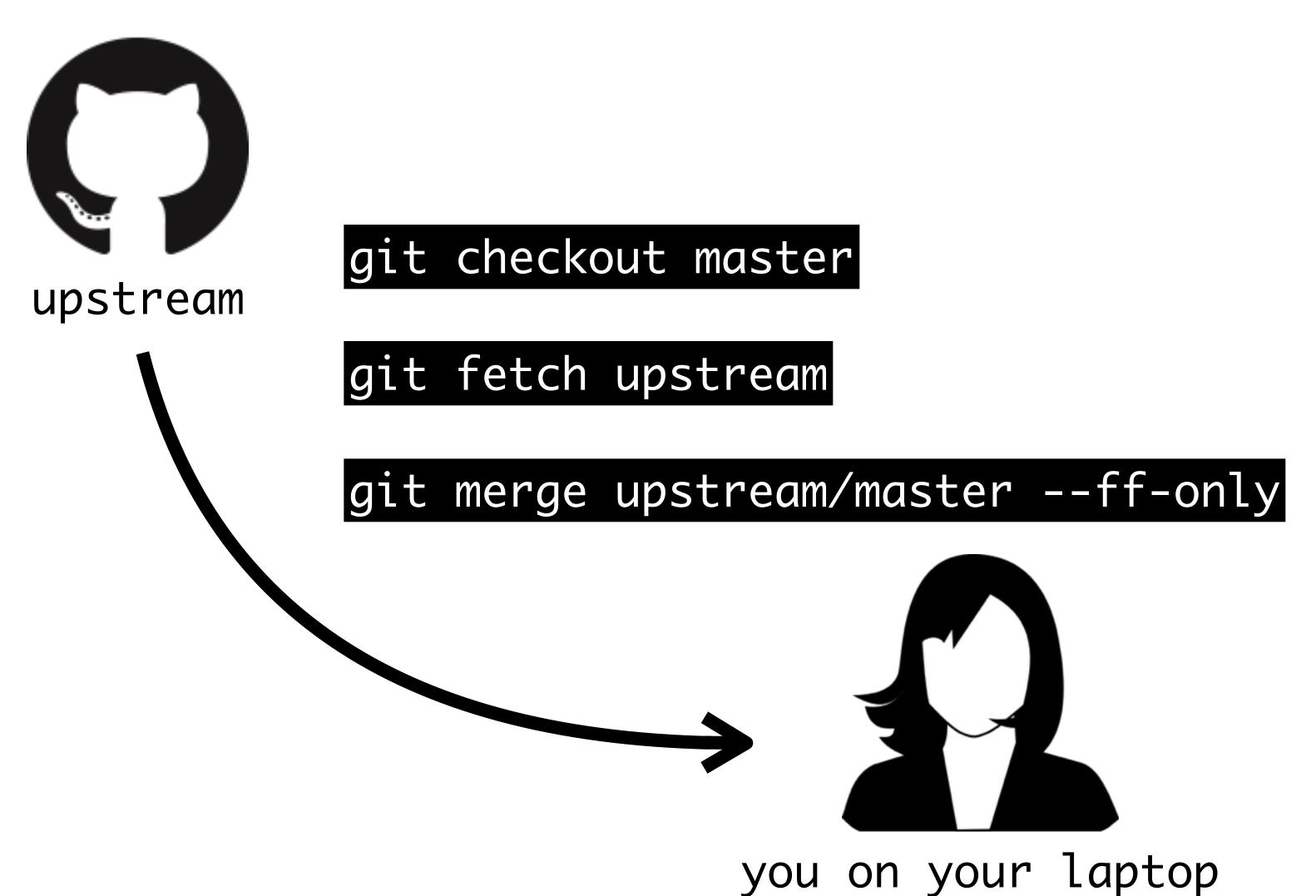




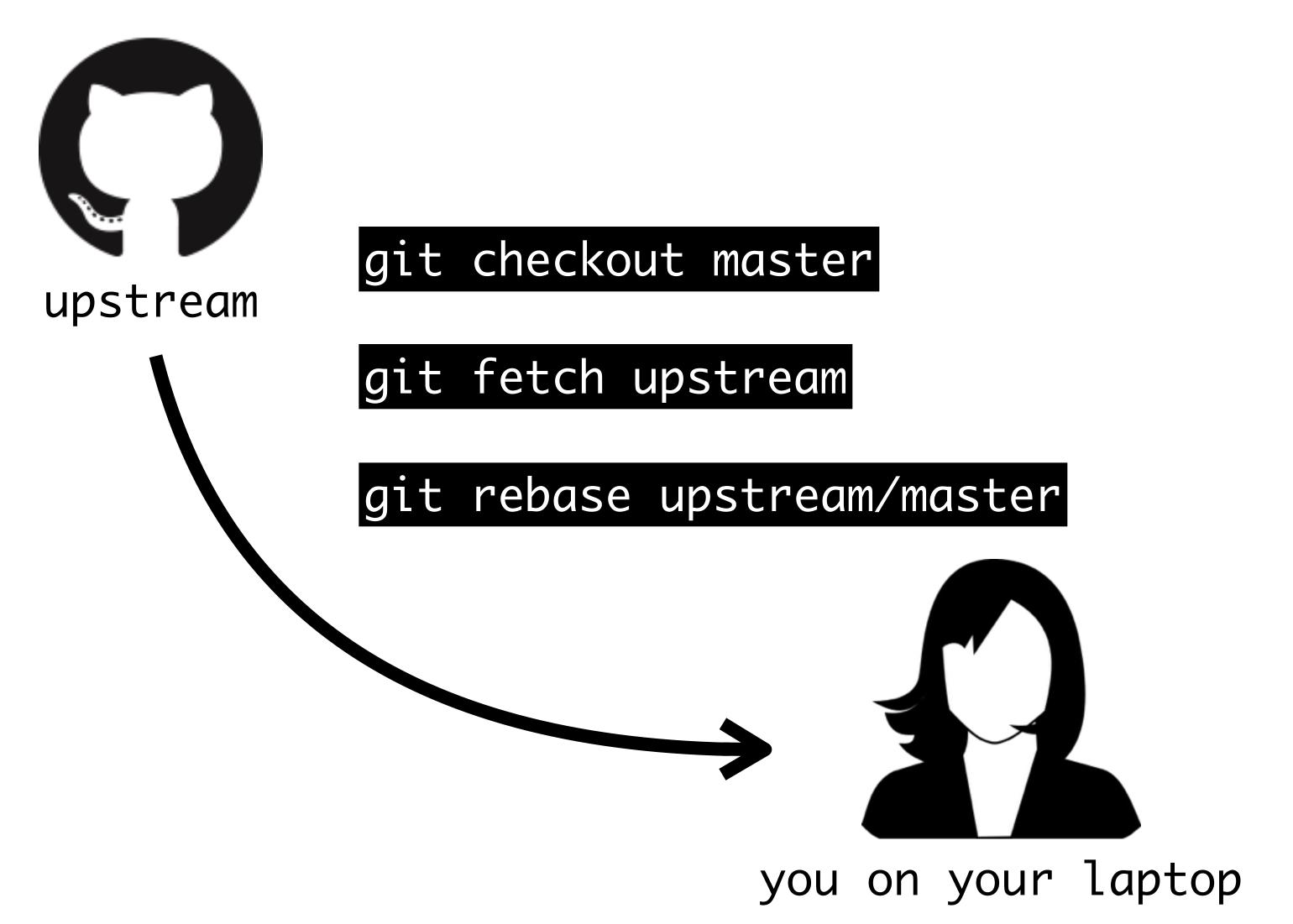




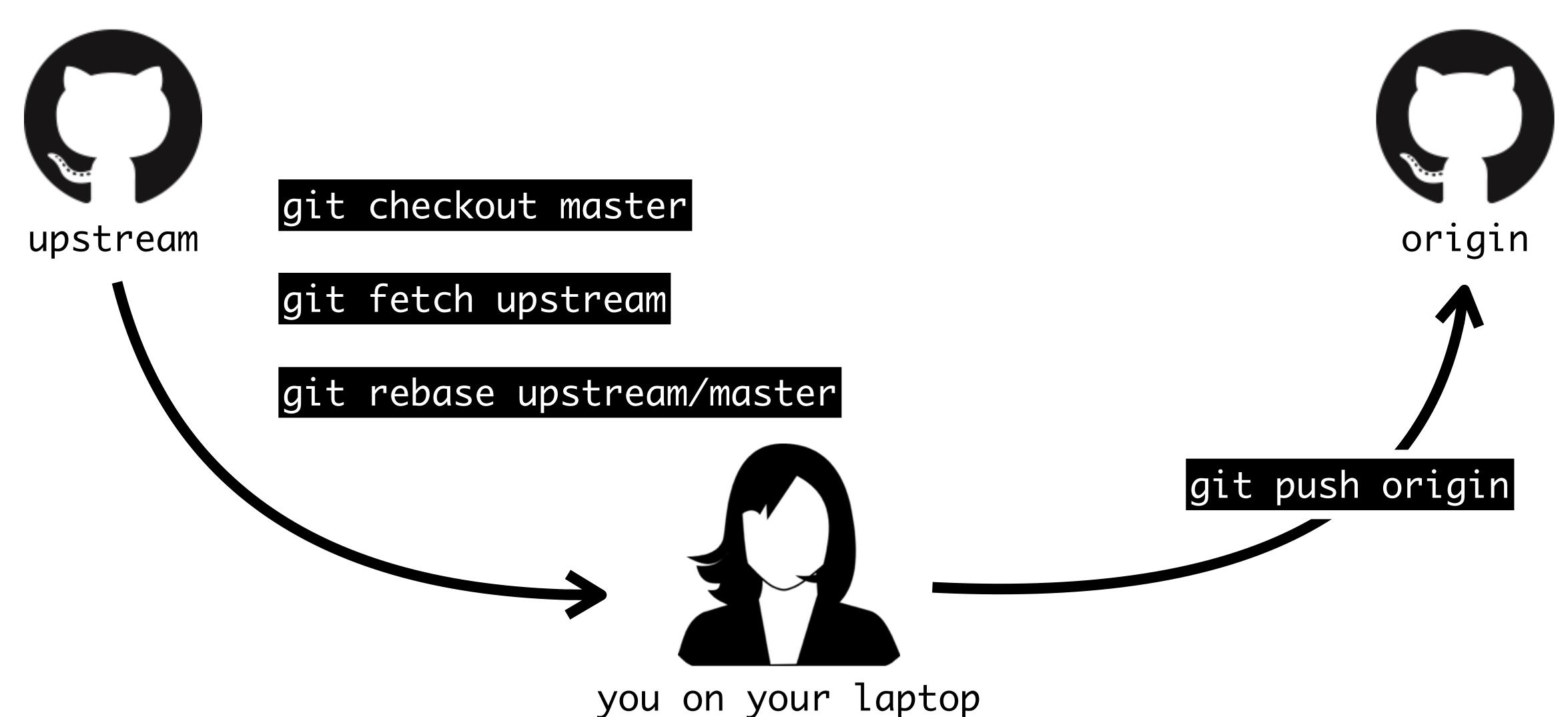






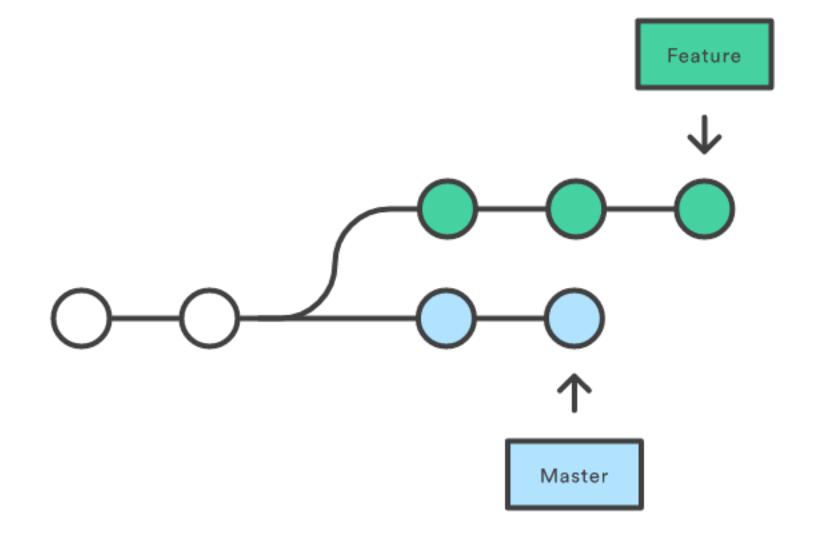


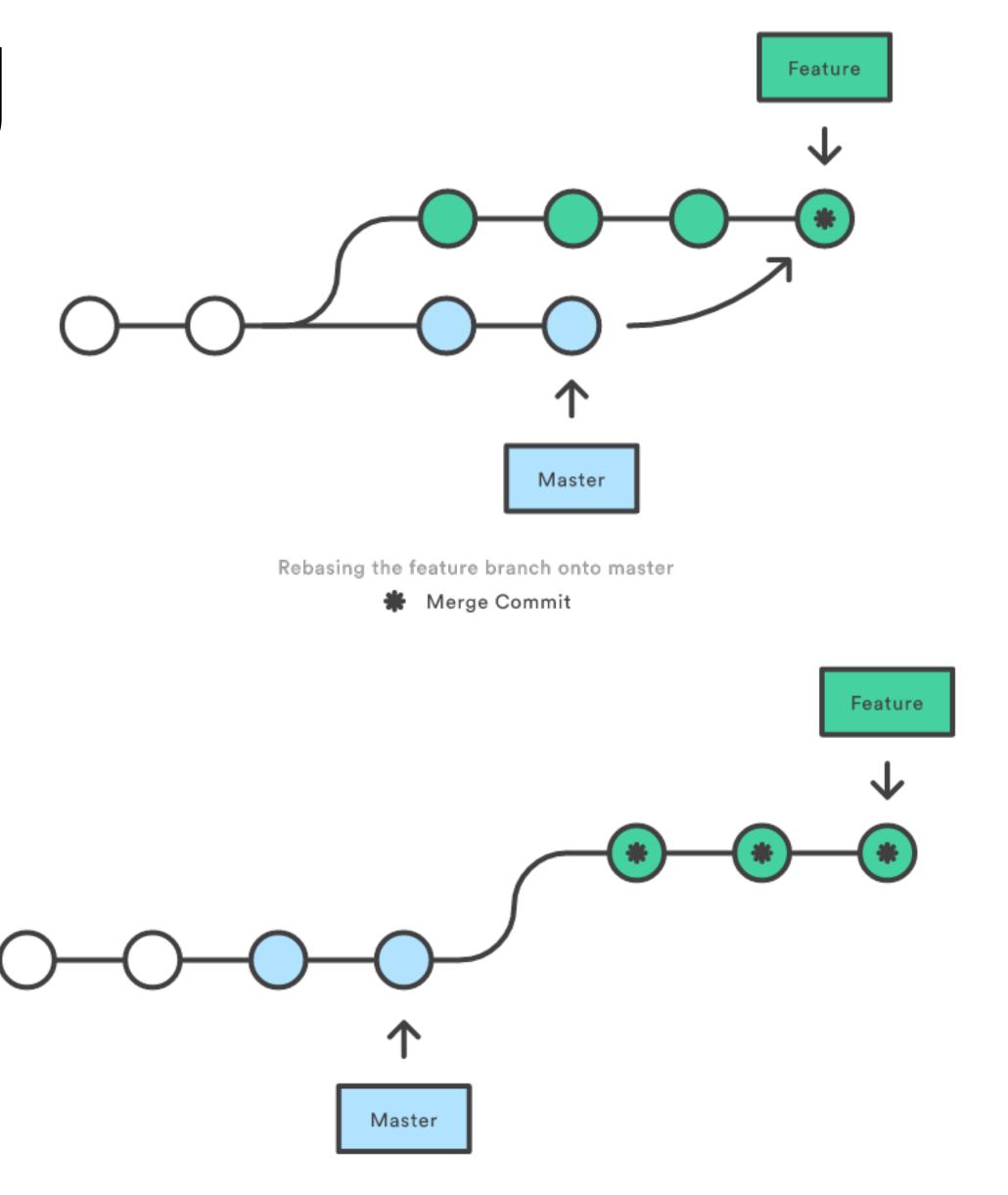




merging vs. rebasing

A forked commit history





building and running the tests

build the project

python setup.py build

install it

python setup.py install

run the tests

python runtests.py





git checkout master

git fetch upstream

git rebase upstream/master



you on your laptop





git checkout master

git fetch upstream

git rebase upstream/master

git checkout -b <new_branch> upstream/master

git push --set-upstream origin <new_branch>



you on your laptop





git checkout -b <new_branch> upstream/master
git checkout master
git push --set-upstream origin <new_branch>

git fetch upstream

git rebase upstream/master

you on your laptop

hack - hack - hack

git commit -a

git push origin

writing the commit message

• First line summarizes commit, starts with one of:

API: API change BLD: build BUG: bug fix

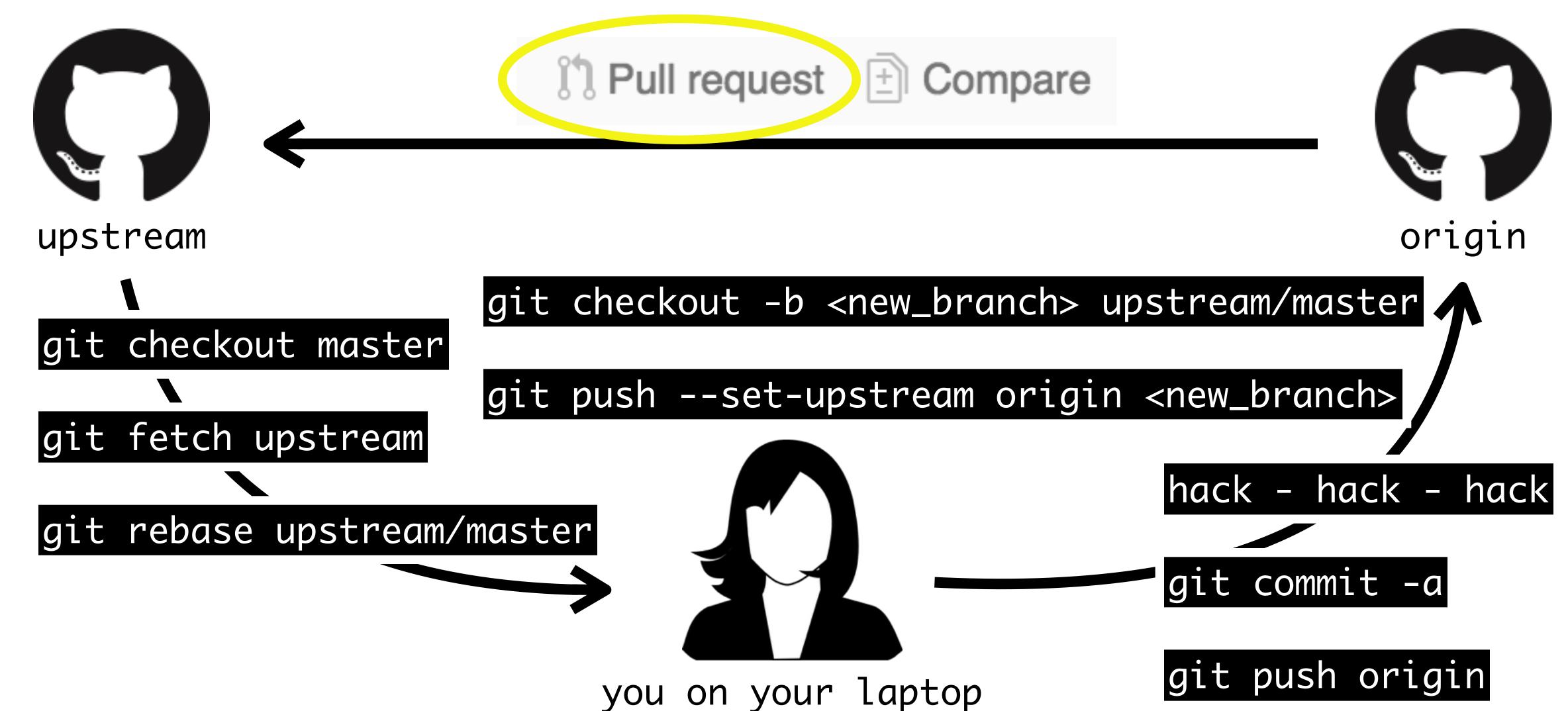
DEP: deprecation **DEV**: development utility

DOC: documentation ENH: enhancement

MAINT: maintenance REV: revert

STY: style fix TST: testing REL: release

- Then a blank line, then more text if needed, break lines at 80 chars.
- Link to other pull requests or issues, e.g. "fixes #6724"



the forking workflow - rebasing





git checkout master

git fetch upstream

git rebase upstream/master



you on your laptop

the forking workflow - rebasing



when in doubt, read the docs!

http://docs.scipy.org/doc/numpy/dev/gitwash/development_workflow.html

Thank you!



jaime.frio@gmail.com



@jaimefrio



jaimefrio



jaimefrio



<u>Jaime</u>