

Office 112, Res. I

Organization:

- website

- class: Mon, 9:45-11:00, and 11:15-12:30

Tue, 14:15-15:30, and 15:45-17:00

(first slot is more "lecture", second slot more "lab/interactive")

Class runs from Sep. 1 till Oct. 27 only!

- weekly homework/programming assignments (start next week)

↳ download and upload solutions via git (see later), also grading via git

↳ usual schedule: hand out on Monday, due midnight the Monday after

↳ only the best 7 out of 9 homework submissions count for the grade

(except illness over several days); therefore no extensions!

↳ solution discussed in class (usually day after submission deadline)

↳ note: I check for copying; respect Academic Integrity

- grade: project portfolio

- 70% weekly homework submissions

- 30% final take-home exam / project

-TA: Shresth Agrawal

↳ "pre-grading" of weekly submission

↳ weekly tutorial/question session (office hour (date tba))

↳ ask him detailed questions about grading first

Please bring your laptop to class!

Course topics: see website

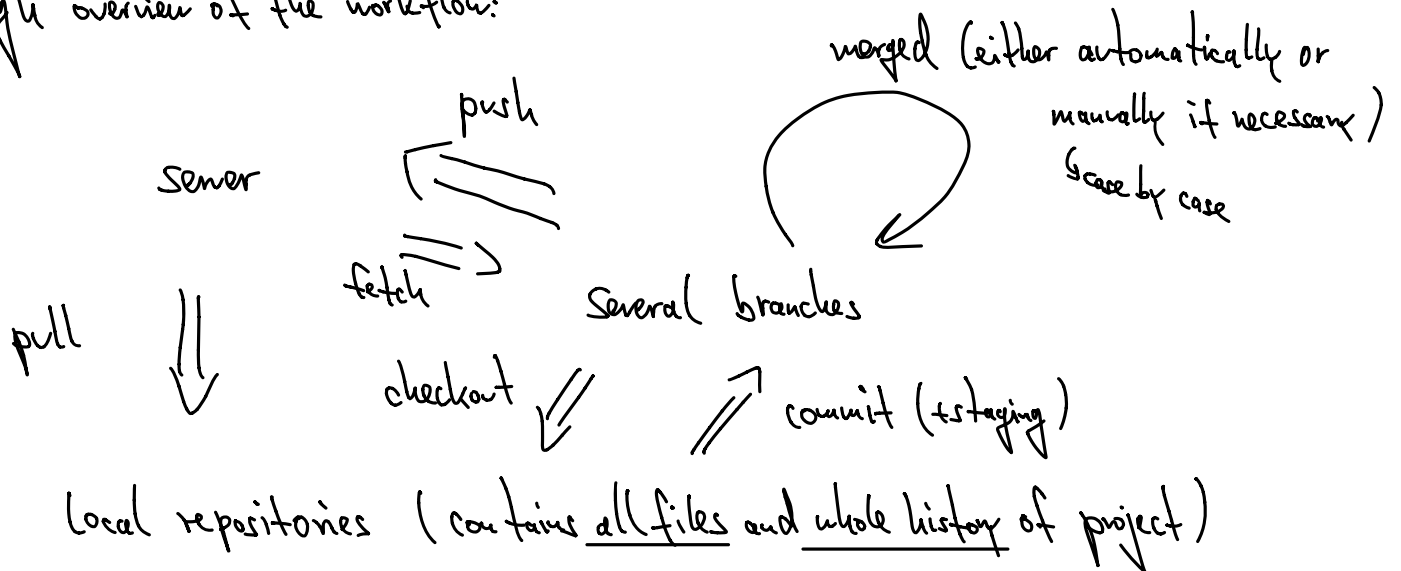
0. Introduction to git and Scientific Python

0.1 git

- software (free + open source) (locally on your computer)
- project development software
 - ↳ version control, change tracking
 - ↳ speed, non-linear workflow (file merging: different timestamps)
 - ↳ used predominantly for software development (linux, recently windows, some google, ...)
 - ↳ useful for (large) scientific collaborations

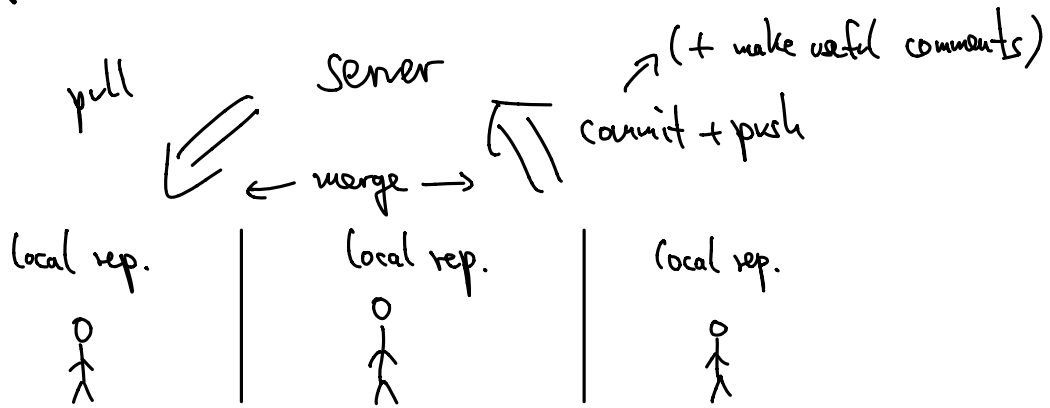
hosting server (filestorage, + sometimes other things): we will use **bitbucket**

rough overview of the workflow:



Ex.: Scientific collaboration

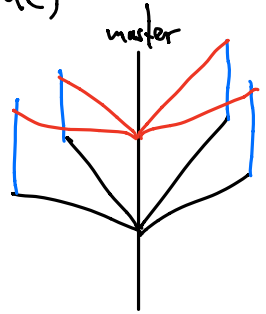
smaller project: usually one branch sufficient



• this class:

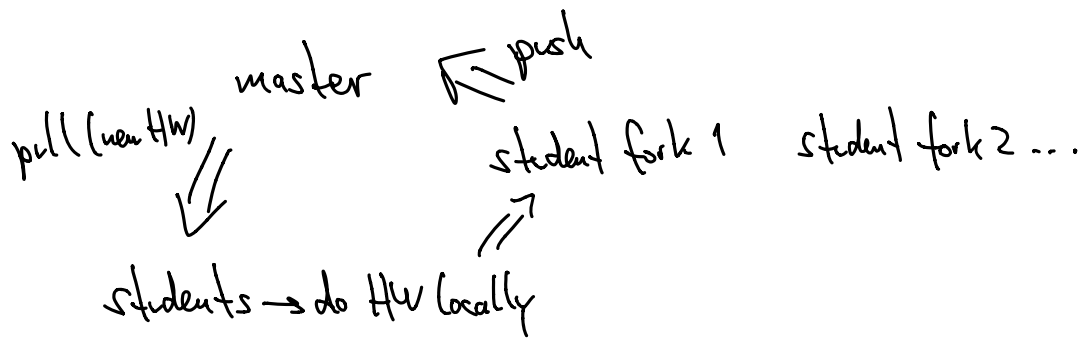
- master branch: all official course material + assignments (public)

- each student: - maintains separate private branch (fork)
- this gets all files from master, but add own private work



- instructor/TA: - need to get write access to all branches

- students: read access to master branch



student: pull master → do work → stage + commit → push

To Do:

- setup git (use "Intro to git academics" by Marcel Oliver: see website link)

↳ download and install git

↳ configure git

↳ bitbucket account

sign up with Jacobs email address

- ↳ academic account
- ↳ so I can find you

↳ fork and clone repository

↳ from master
project branch

↳ to your local computer

↳ give s.petrot@jacobs... and s.agrawal@jacobs... write access