Python Seminar 2018

Ana Bulović
Jorin Diemer
Jens Hahn

This course

- Versioning (today)
- Python basics
- Special Python packages

Seminar Structure

- **Discuss homework**
- **New features**
- **Hands-on tutorial**

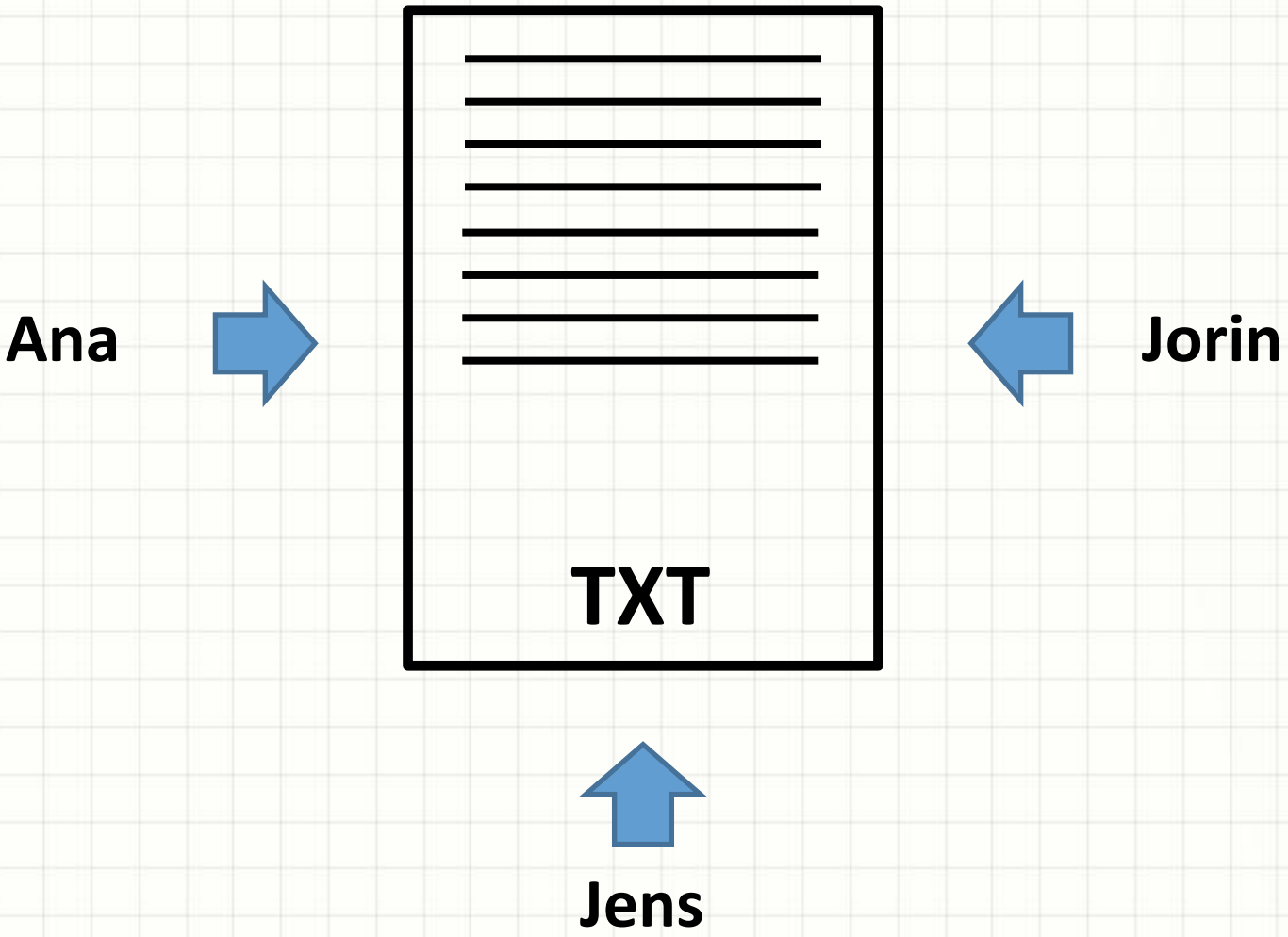
Today

1. Versioning
2. Git
3. Github

“Versioning”

20170105
20170110
20170115
20170205
20170210
20170215
20170305
20170310
20170315
20170405
20170410
20170415
20170505
20170510
20170515
20170605
20170610
20170615
20170705
20170710
20170715
20170805
20170810
20170815
20170905
20170910
20170915
20171005
20171010
20171015
20171105
20171110
20171115
20171205
20171210
20171215
20180105
20180110
20180115
20180205
20180210
20180215
20180305
20180310
20180315
20180405
20180410
20180415
20180505
20180510
20180515
20180605
20180610
20180615
20180705
20180710
20180715
20180805
20180810
20180815
20180905
20180910
20180915
20181005
20181010
20181015
20181105
20181110
20181115
20181205
20181210
20181215

Cooperation



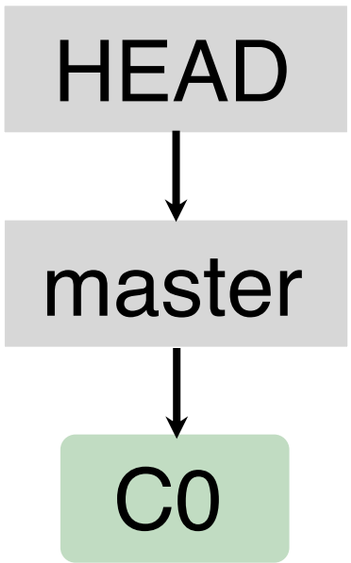
Git

- **Track and save all changes**
- **Made for large software projects**
- **Useful and handy for all projects**

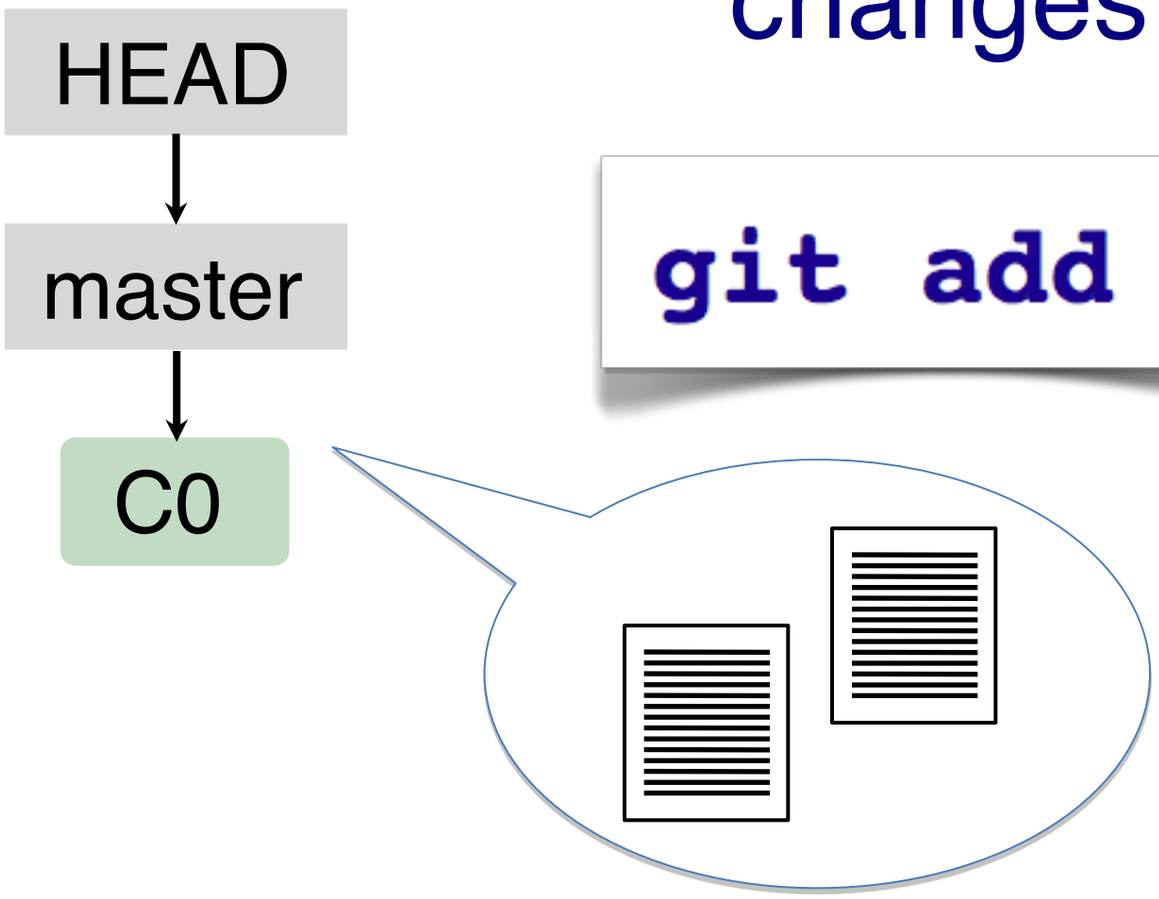
Basic git

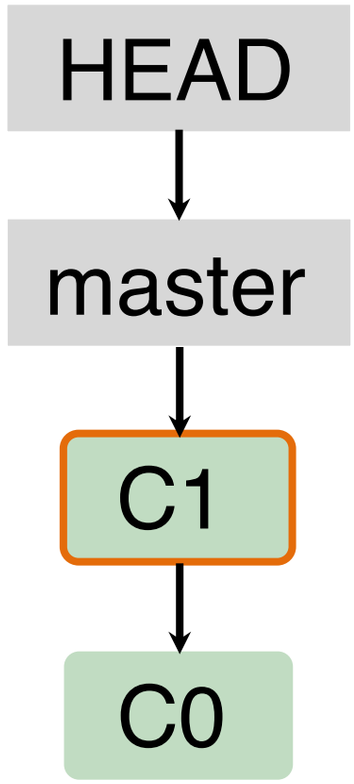
Create a git repo

```
mkdir repo
cd repo
git init
```



Tell git to “stage” changes





Commit your changes

```
git commit …
```

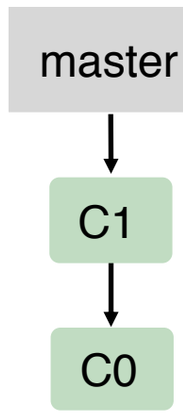
Collaborating

John

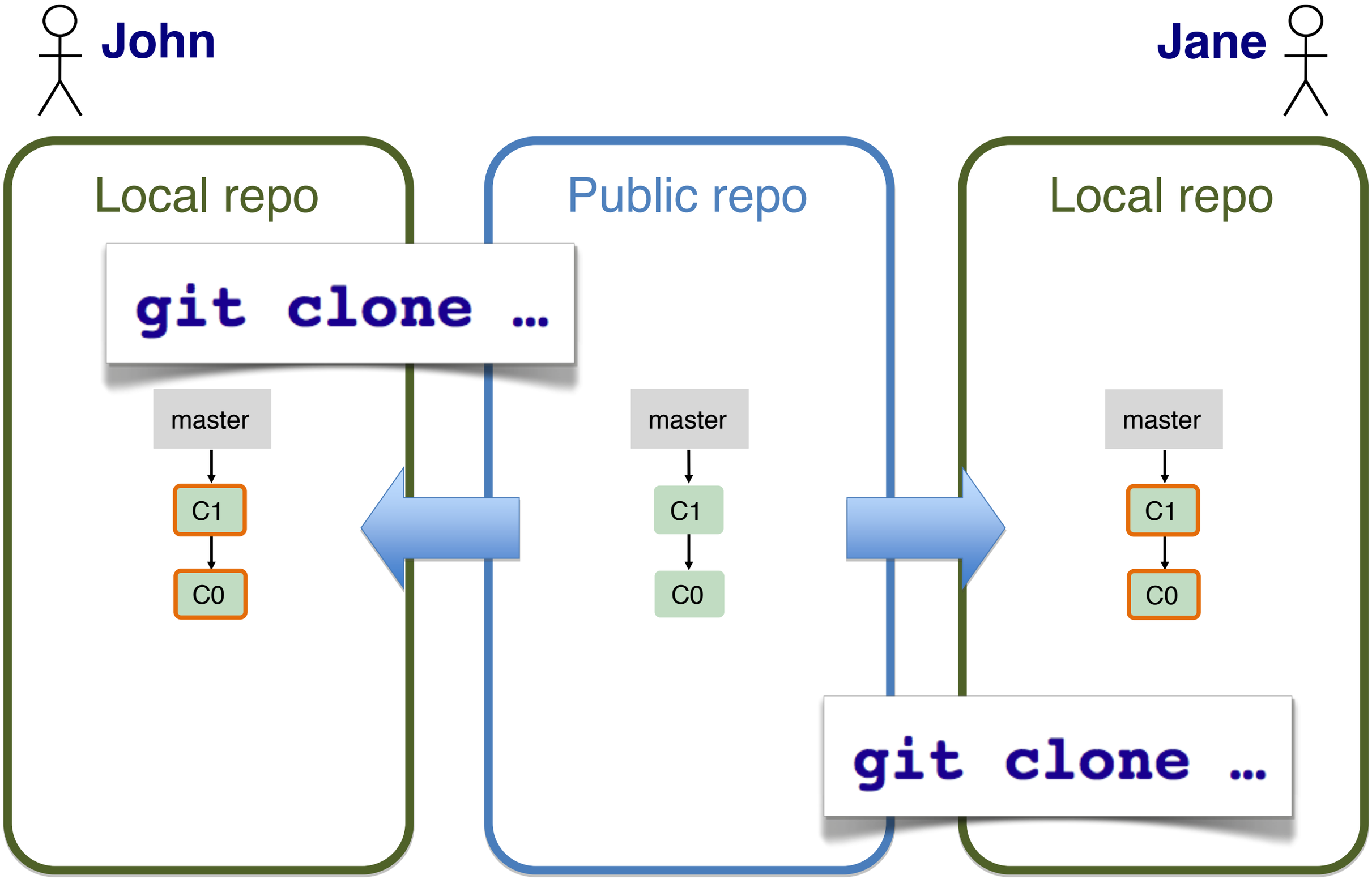
Jane

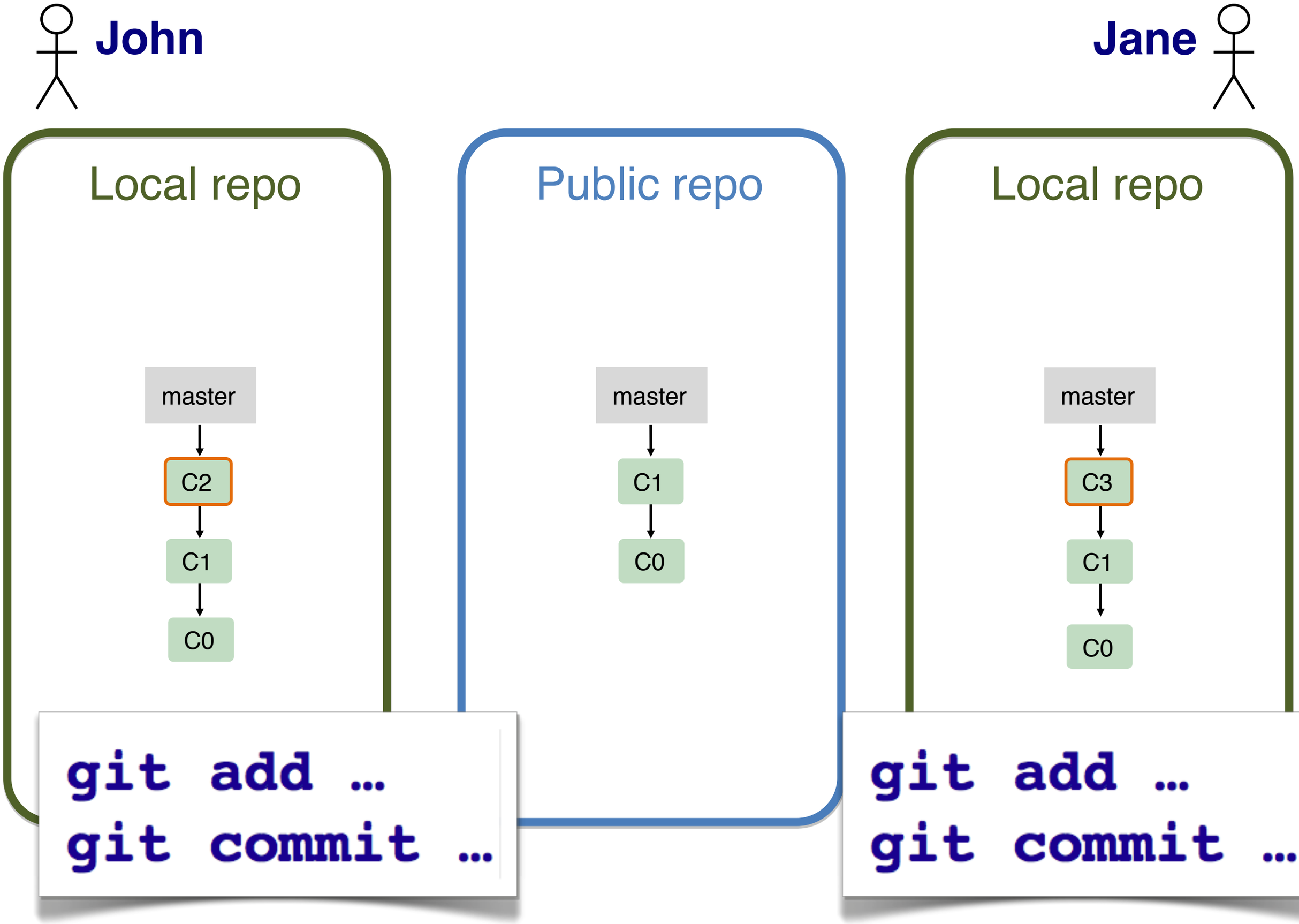
Local repo

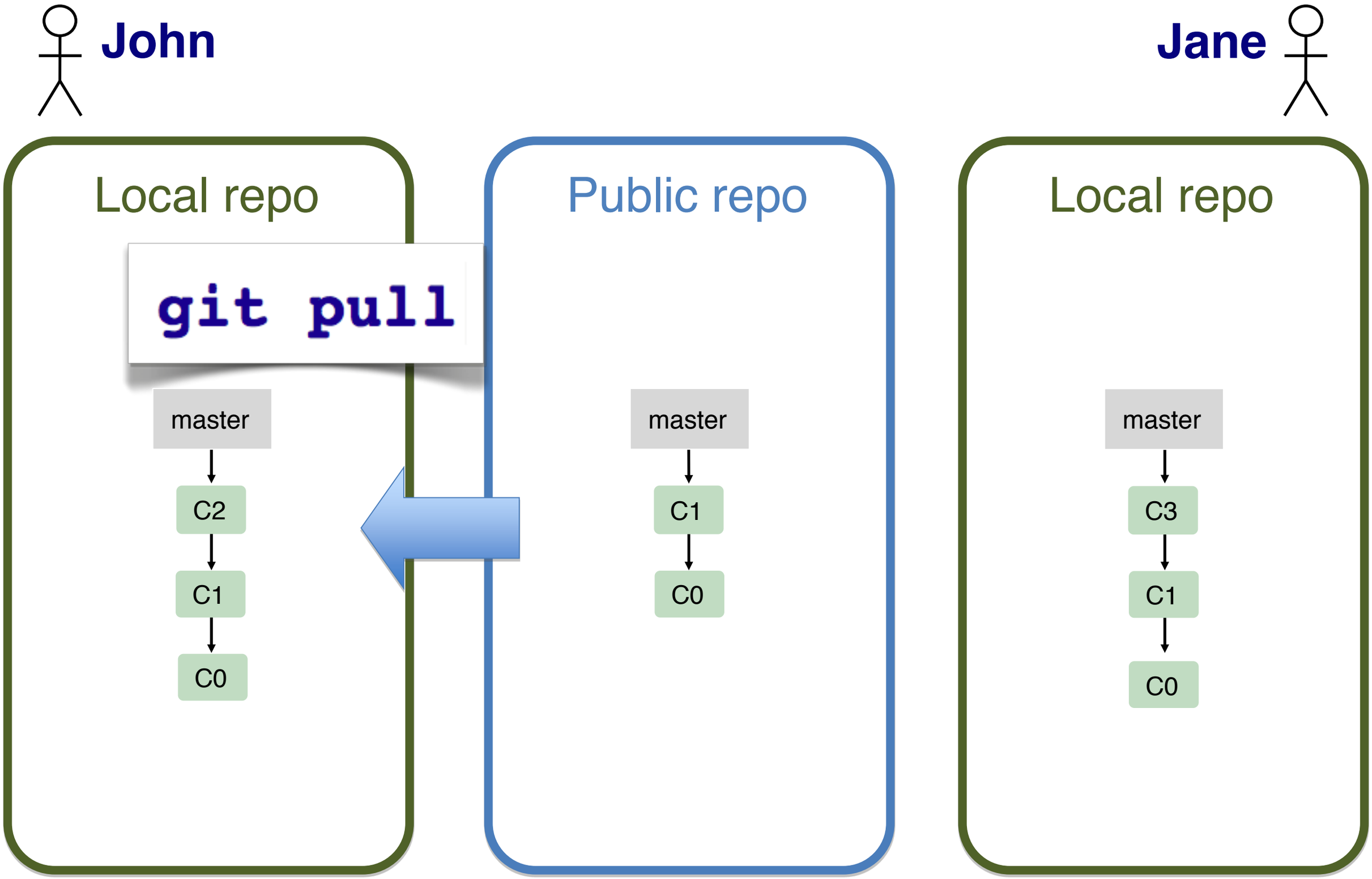
Public repo



Local repo


John
Jane
Local repo
Public repo
Local repo
git clone …
master
C1
C0
master
C1
C0
master
C1
C0
git clone …


John
Jane
Local repo
Public repo
Local repo
master
C2
C1
C0
master
C1
C0
master
C3
C1
C0
git add …
git commit …
git add …
git commit …



(nothing new to pull)

John

Jane

Local repo

```
git push
```

master

C2

C1

C0

Public repo

master

C2

C1

C0

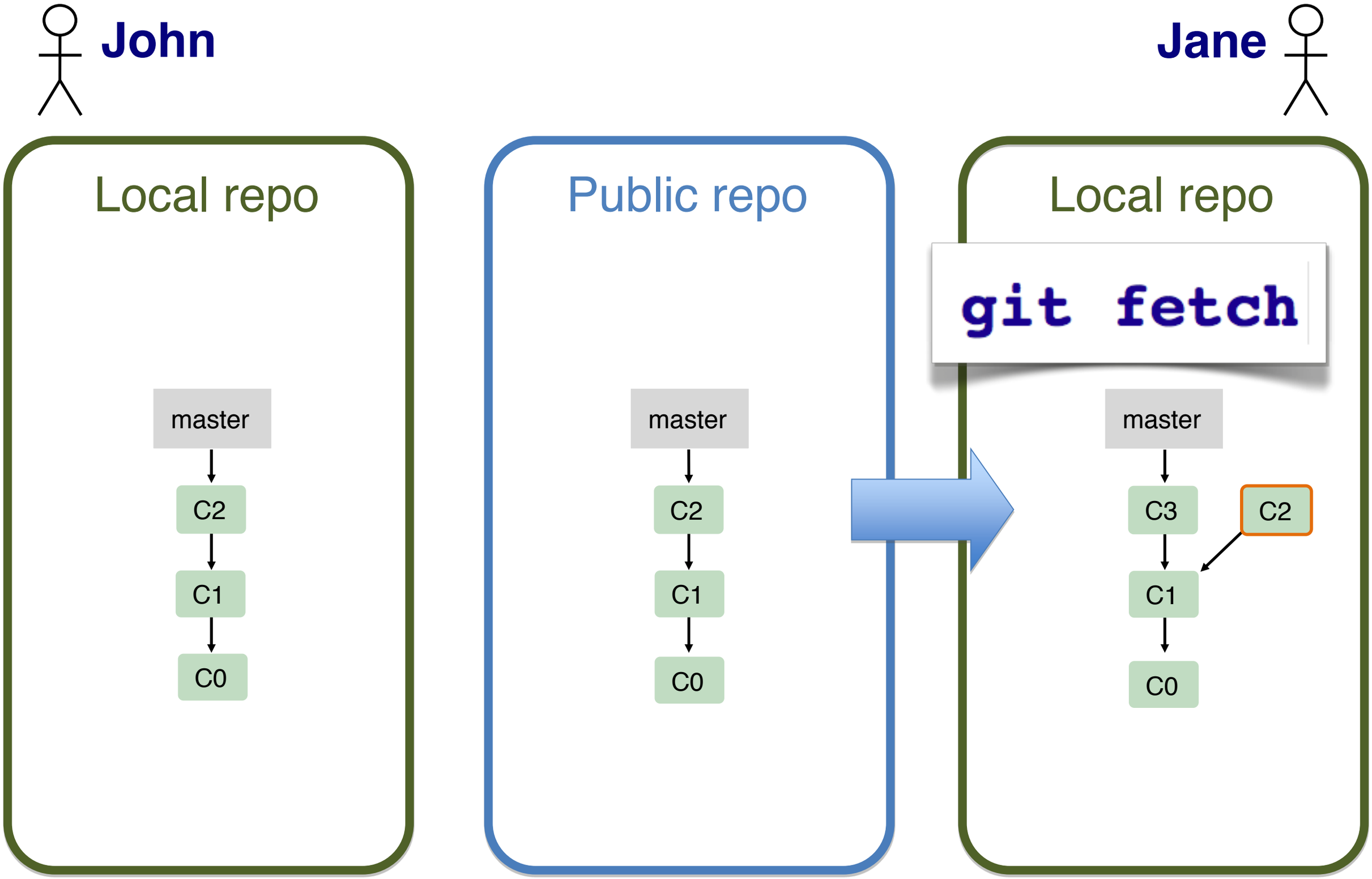
Local repo

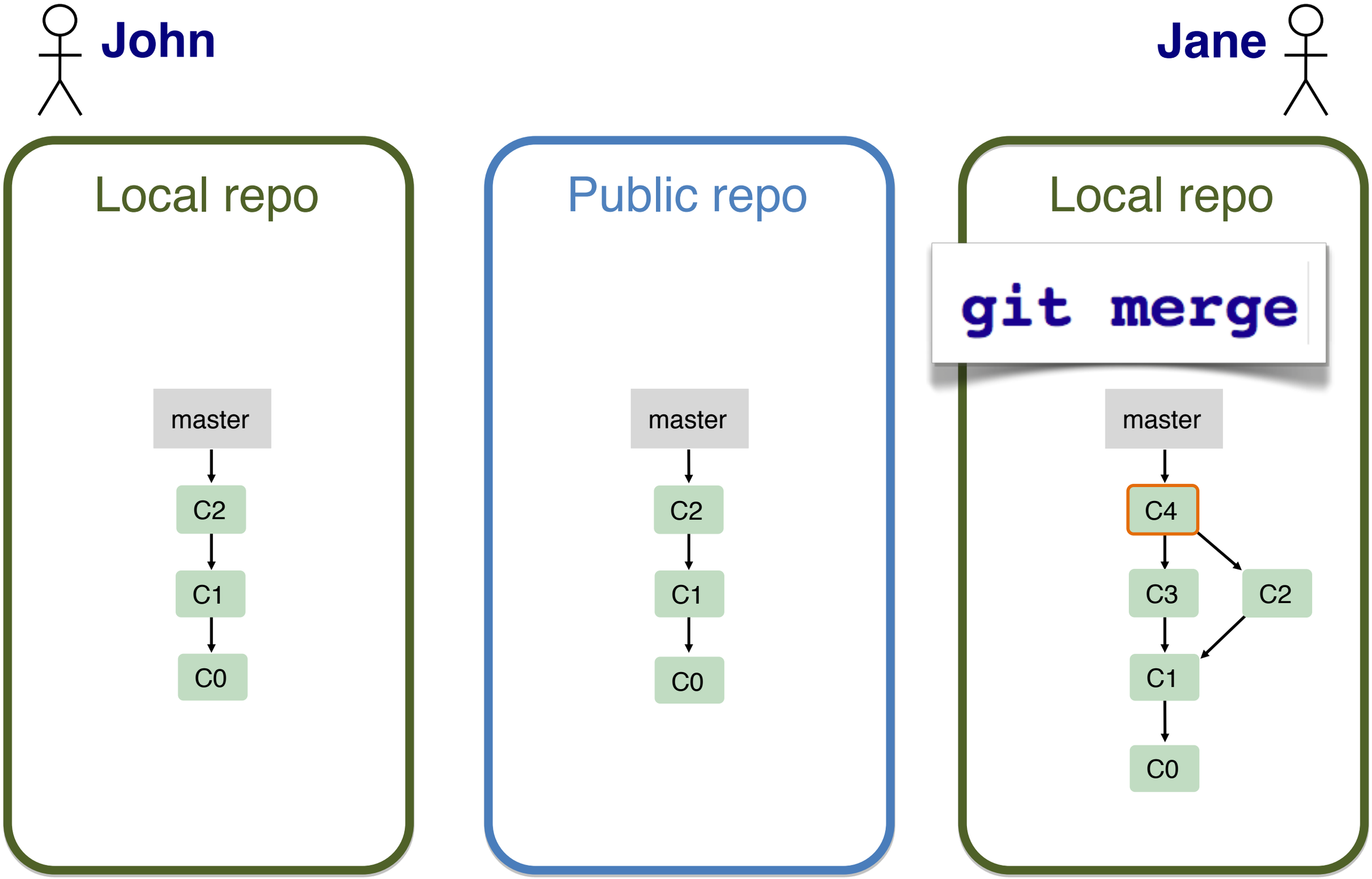
master

C3

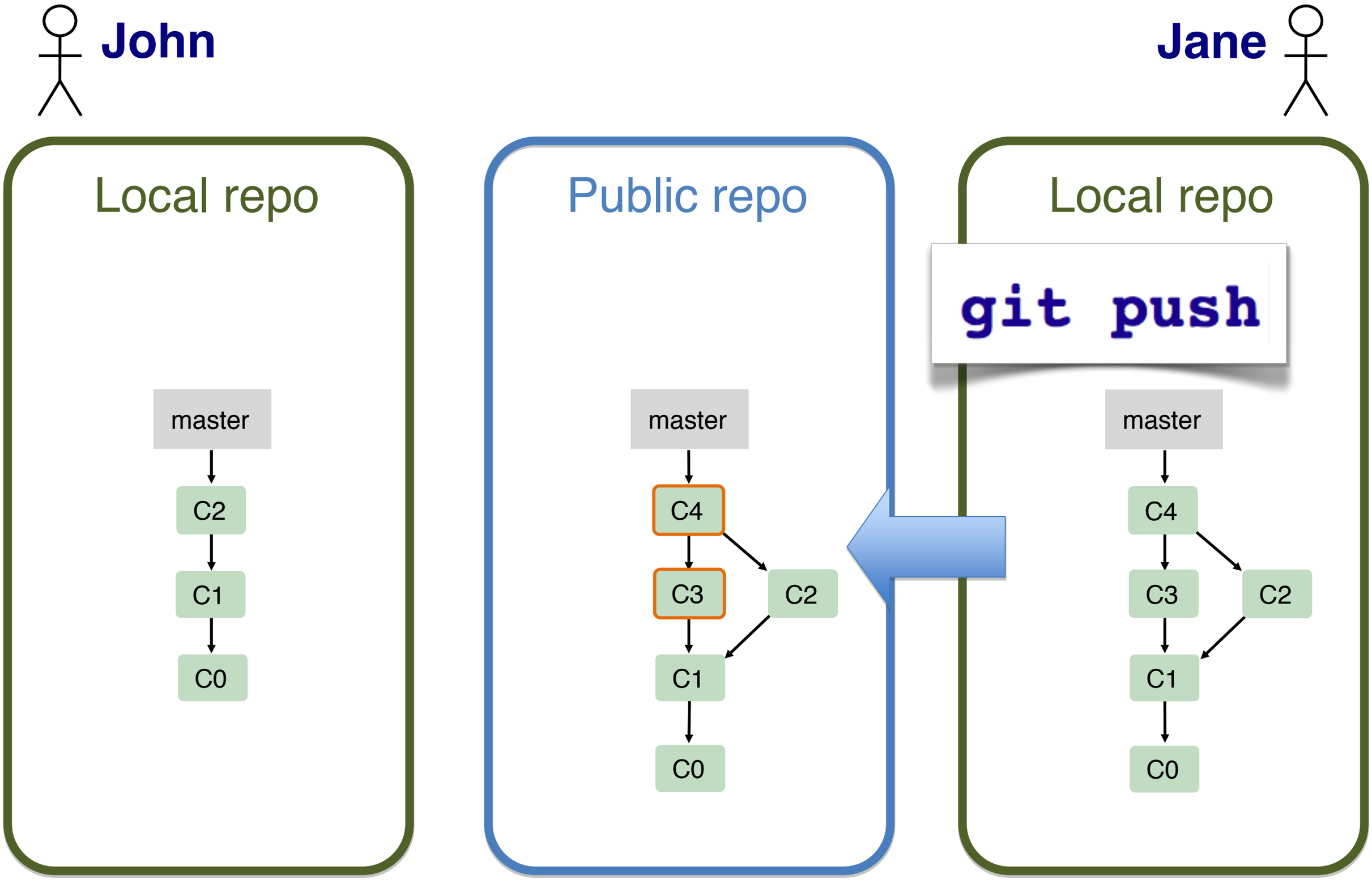
C1

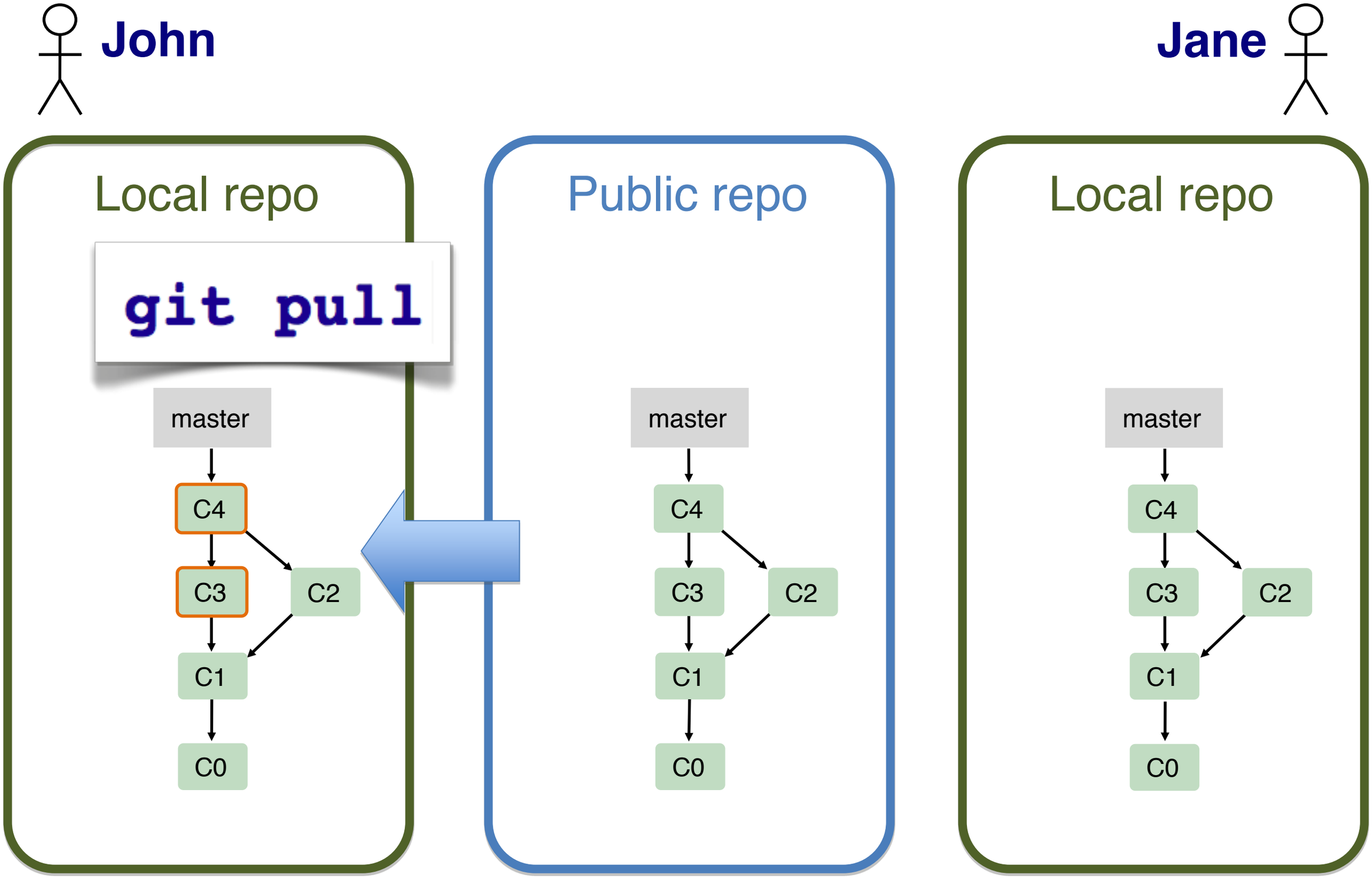
C0


John
Jane
Local repo
Public repo
Local repo
git fetch
master
C2
C1
C0
master
C2
C1
C0
master
C3
C2
C1
C0



NB: **git pull** = fetch + merge


John
Jane
Local repo
Public repo
Local repo
git push
master
C2
C1
C0
master
C4
C3
C2
C1
C0
master
C4
C3
C2
C1
C0


John
Jane
Local repo
Public repo
Local repo
git pull
master
C4
C3
C2
C1
C0
master
C4
C3
C2
C1
C0
master
C4
C3
C2
C1
C0

Repositories

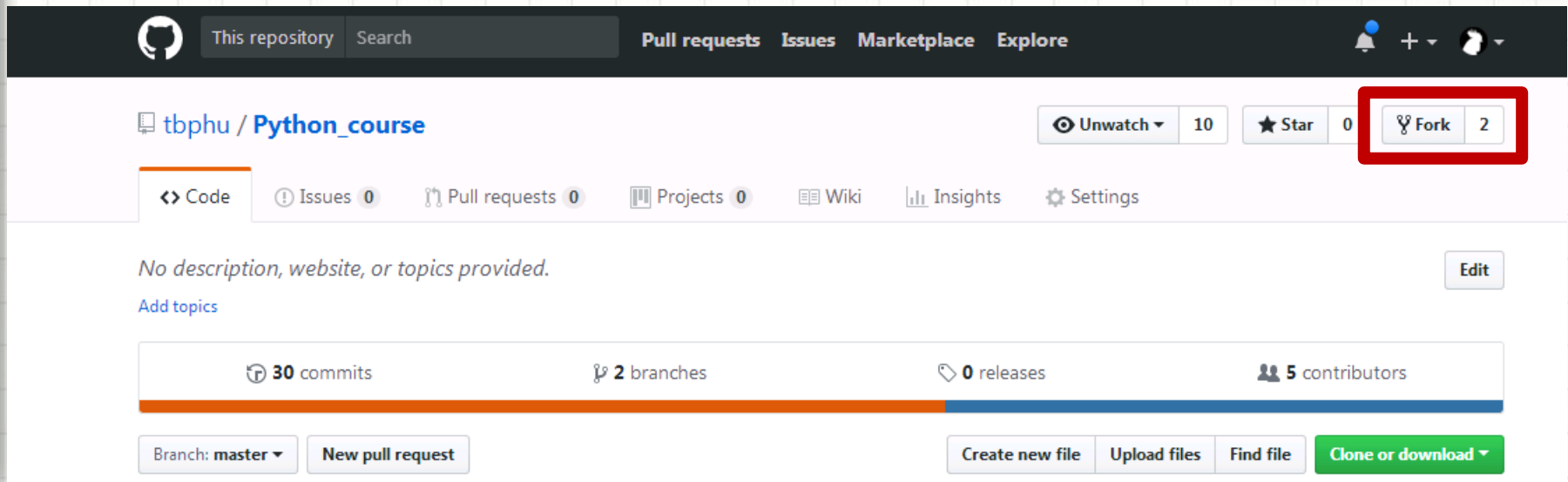
- **Remote repo: http://github.com**
- **Local repo: On your PC**

Hands-on – Github account

- **Go to http://github.com**
- **Register and get an account**

Hands-on – Fork our repo

- **Go to**

http://github.com/tbphu/Python_course

- **Click on FORK**