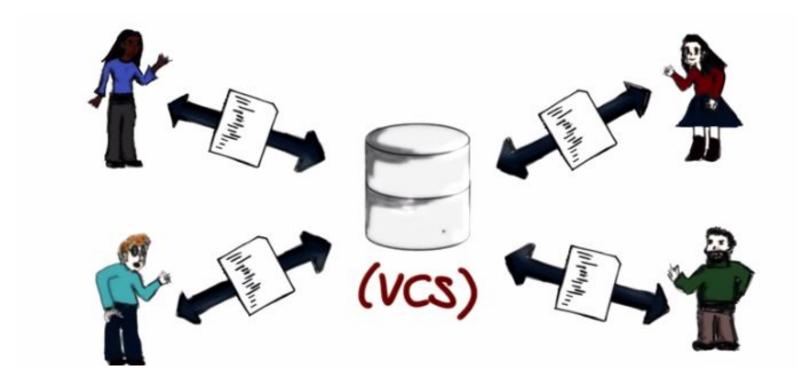
# VERSION CONTROL

Lab



### VERSION CONTROL

Udacity about GitHub





# WHY VERSION CONTROL SYSTEMS?



Enforce discipline

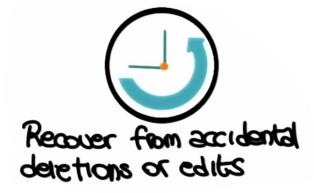


Archive versions



mformanon Mantain historical









### ESSENTIAL ACTIONS



Lb A



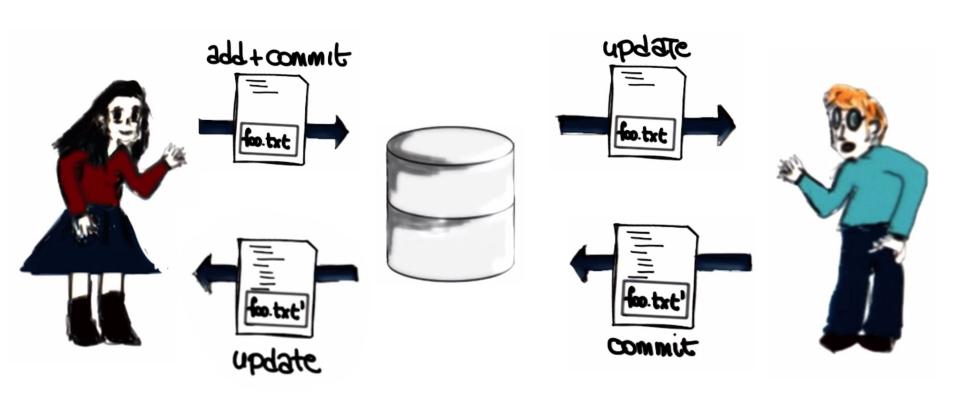
Commit



nbggje



# VC5 WORKFLOW





# DON'T DO IT







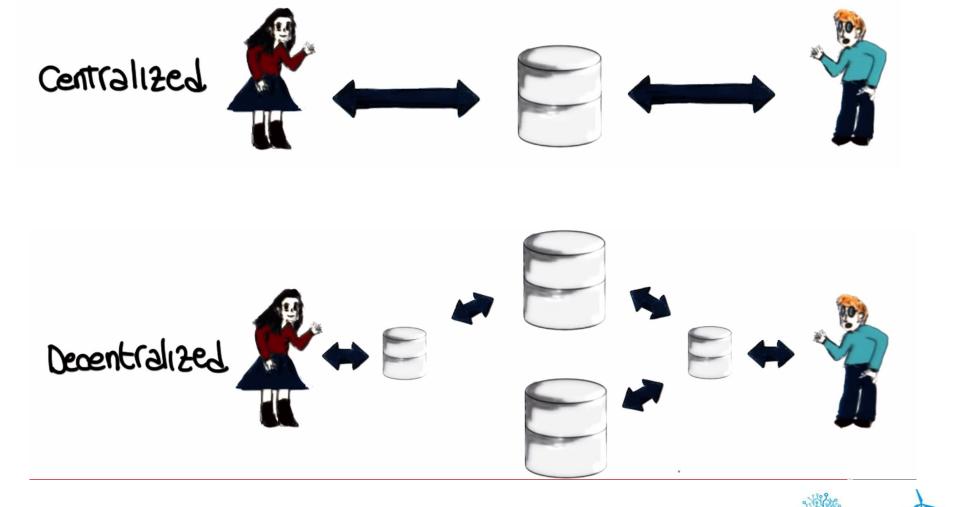








### TYPES OF VCS



# GIT

Lab



### ABOUT GIT

- DECENTRALIZED VC5
- LINUS THORVALDS
- LARGE PROJECTS IN AN EFFICIENT WAY
- FOR EXAMPLE LINUX



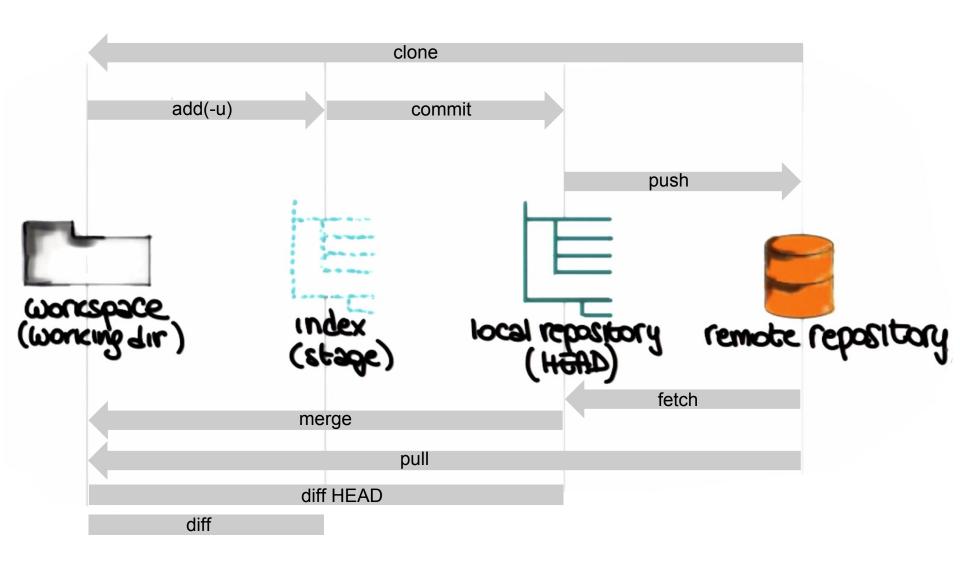
# INSTALL GIT

- · LINUX: PACKAGE
- · MAC OS: XCODE, PACKAGE
- · WINDOWS: PACKAGE WITH INSTALLER

• SEE HTTP://GIT-SCM.COM/DOWNLOADS



# GIT WORKFLOW





# GIT DEMO 1

Basics



# LOCAL REPOSITORIES

```
Creale
ed A possible workflow
g: (This is just an example!)
      - some editing
      - git status

to see what files you changed

- git diff [files]
90000
      - git commit -a [-m (message)]
 git show (188t commit)
```

# GIT DEMO 2

Advanced



### REMOTE REPOSITORIES

# Copy repository

- · git done < repository)
  - · repository = URL (file, http, ssh, ...)
  - · creates a complete local copy of the repository
  - · links if to the remote repository (origin)

### Receive changes

- · git pull
- Send changes
- · git push



# GIT HUB



# LAB



#### PROJECTS

**JHotDraw** 



#### LAB TODOS

- Clone remote repository from <u>GitHub</u>
- Get familiar with Git commands
  - see this slide for an overview
- Commit your initial project code using the Git commands add, commit, pull, push...
- Input change request as an Issue at GitHub

