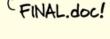
"FINAL".doc





FINAL_rev.2.doc







FINAL_rev.6.COMMENTS.doc

FINAL_rev.8.comments5. CORRECTIONS.doc





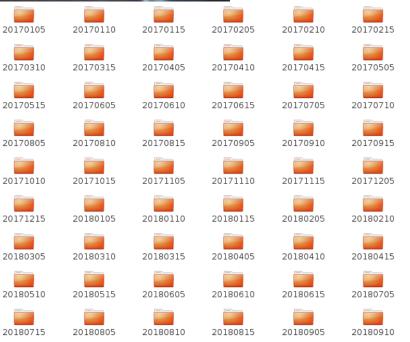


FINAL_rev.18.comments7. corrections9.MORE.30.doc

FINAL_rev.22.comments49. corrections.10.#@\$%WHYDID ICOMETOGRADSCHOOL????.doc

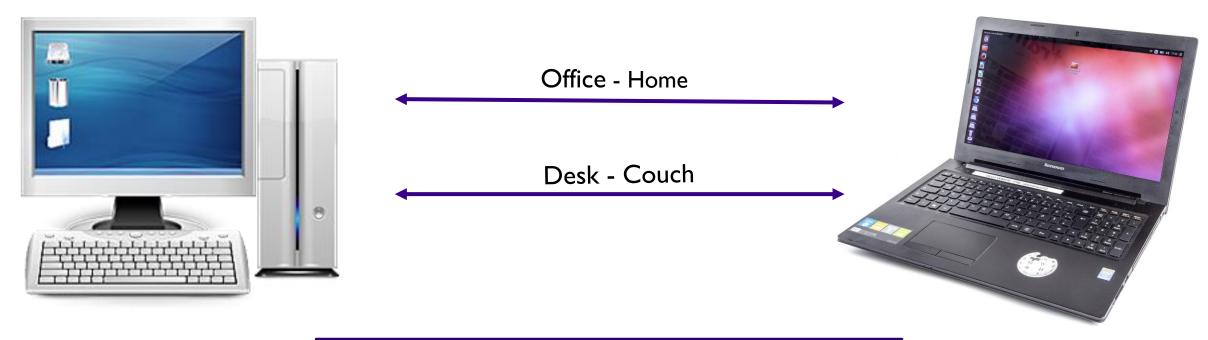








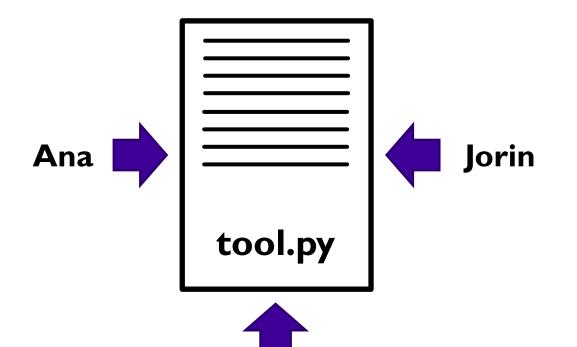






COOPERATIVITY





Date	Author	Change	
05/03/2018 – 4.03 pm	Jens	Create draft	
05/03/2018 – 4.10 pm	Ana	Added chapter I	
05/03/2018 – 6.08 pm	Jorin	Added feature X	
05/03/2018 – 6.30 pm	Jorin	Debugged feature X	
06/03/2018 - 11.40 am	Ana	Added feature Y	
06/03/2018 – 2.30 pm	Ana	Changed feature X	
07/03/2018 – 6.01 pm	Jens	Added feature Z	

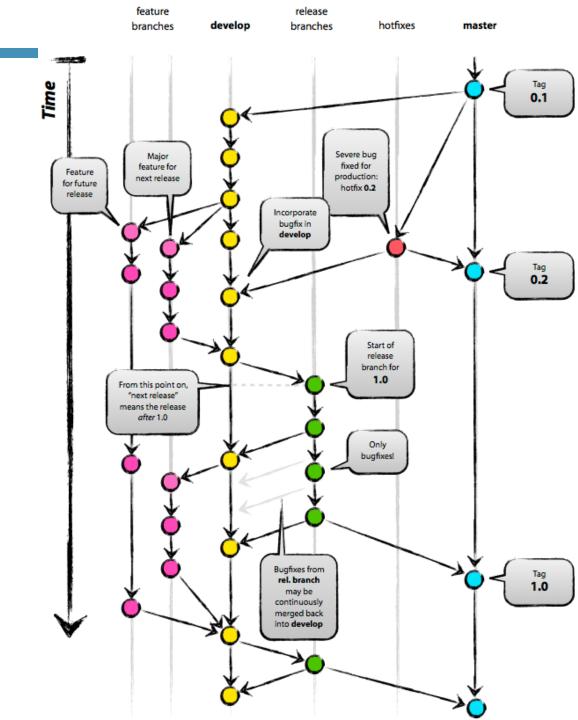


DEVELOPMENT

Programming is non-linear

 Latest version is not necessary the most stable one

 New features often break existing functions





GIT

 Free open source versioning control software (VCS)

Versioning of folders (repositories)

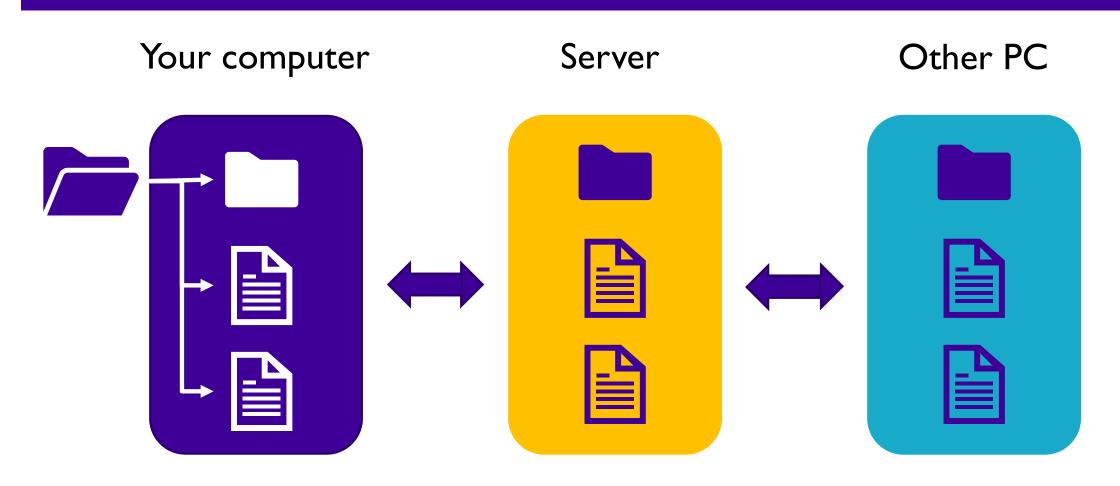
Tracking of all changes (commits)

Different 'versions' of your files (branches)

Name \$	2015 \$	2017 \$	2018 \$
Git	69.3%	69.2%	87.2%
Subversion	36.9%	9.1%	16.1%
TFVC	12.2%	7.3%	10.9%
Mercurial	7.9%	1.9%	3.6%
cvs	4.2%	[ii]	[ii]
Perforce	3.3%	[ii]	[ii]
VSS	[ii]	0.6%	[ii]
ClearCase	[ii]	0.4%	[ii]
Zip file backups	[ii]	2.0%	7.9%
Raw network sharing	[ii]	1.7%	7.9%
Other	5.8%	3.0%	[ii]
None	9.3%	4.8%	4.8%



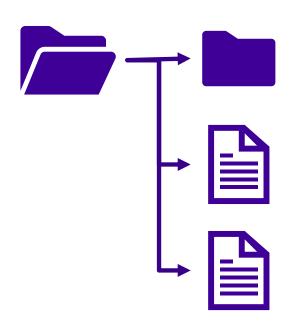






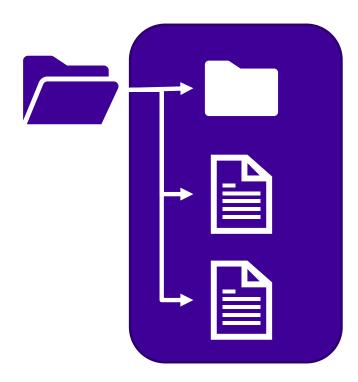


File on my computer





Turn into repository





Get files from remote repository



https://<personal access token>@github.com/spicedacademy/ordinal-oregano-student-code.git

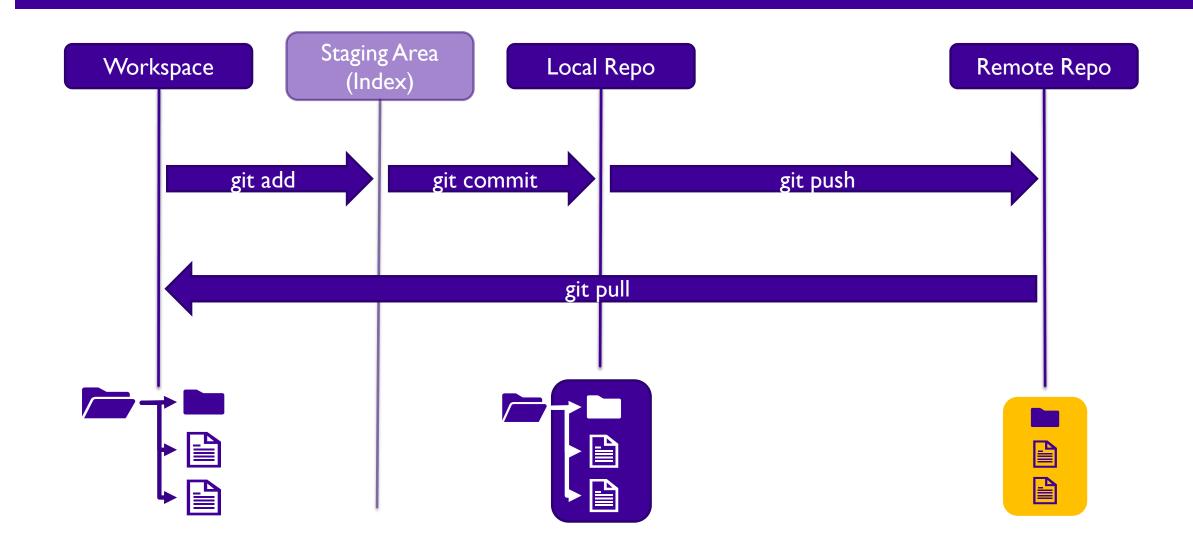


CLONING

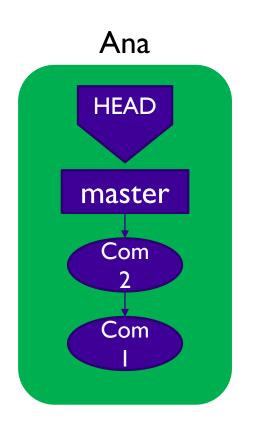
remote repository local repository local repository Server Ana Jens git clone git clone

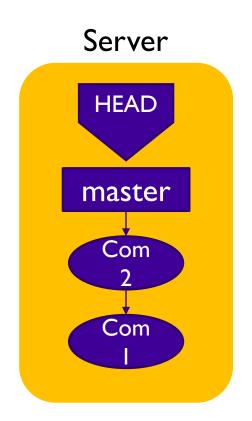


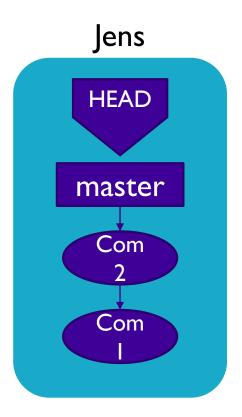
THE REPOSITORY



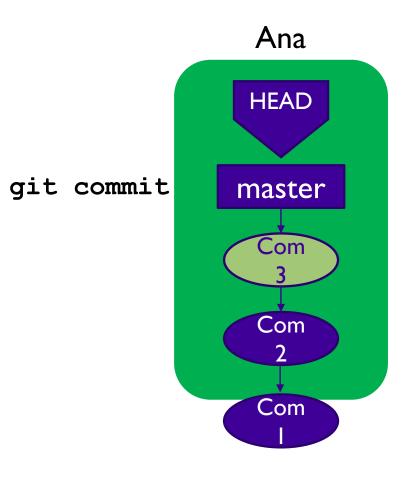


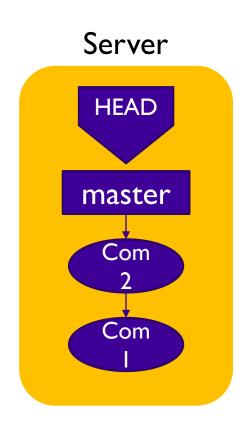


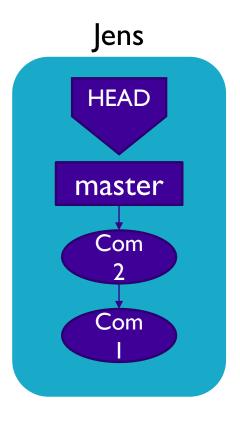




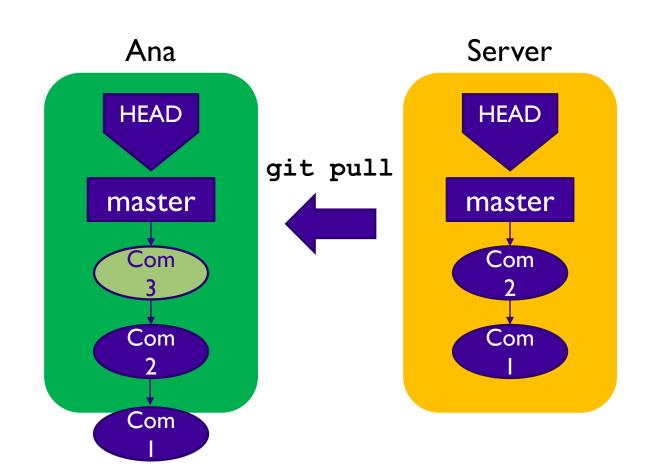


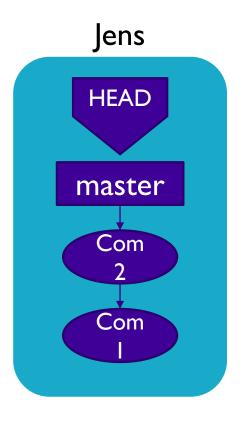




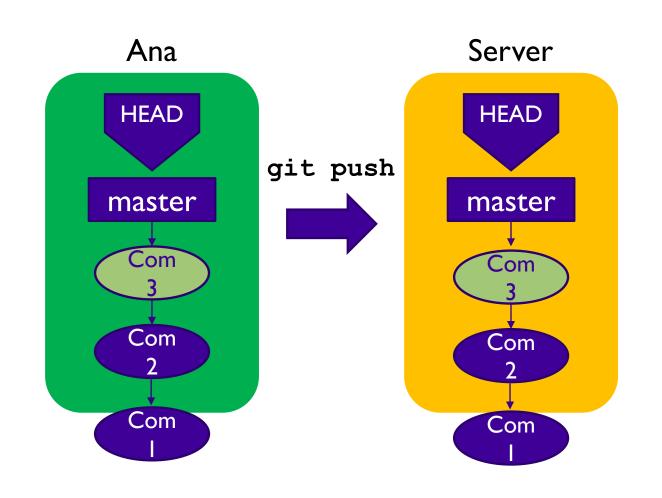


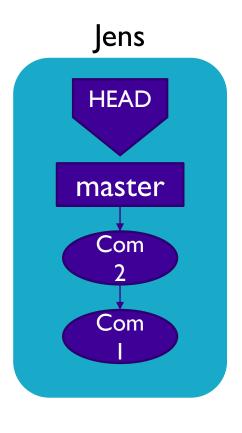




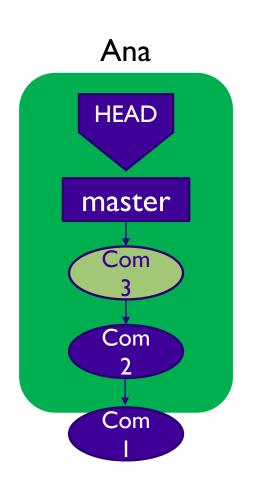


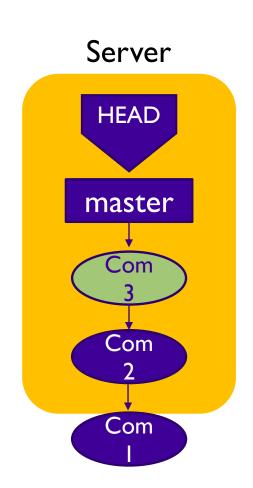


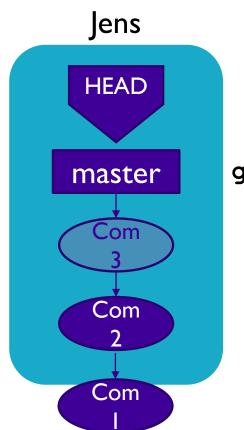






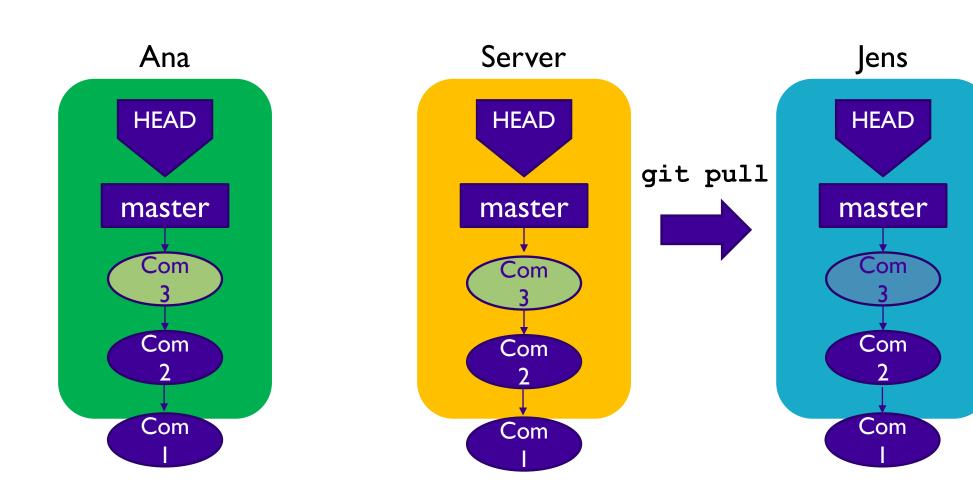




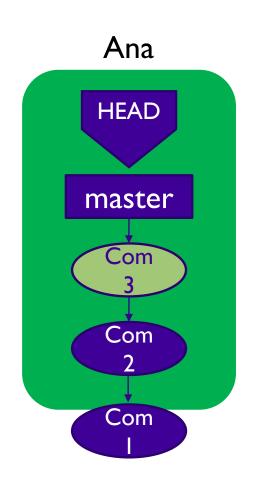


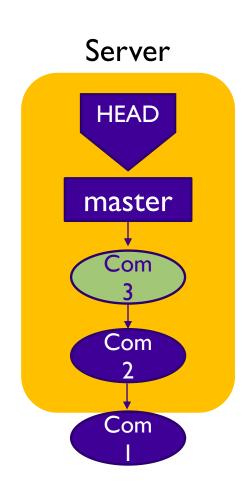
git commit

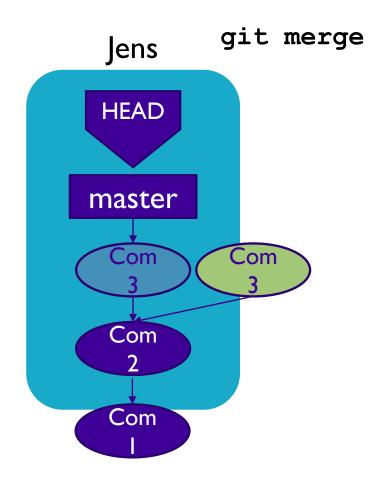




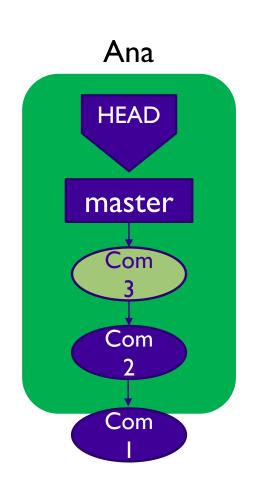


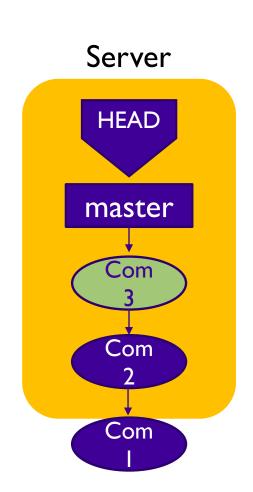


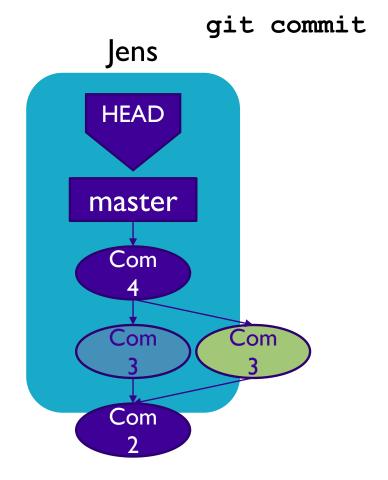




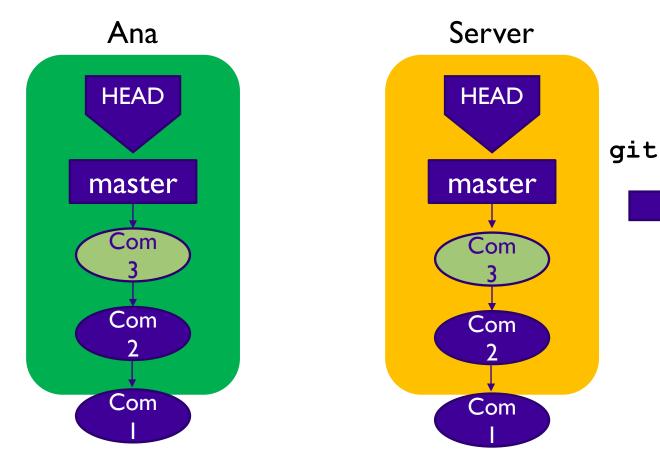


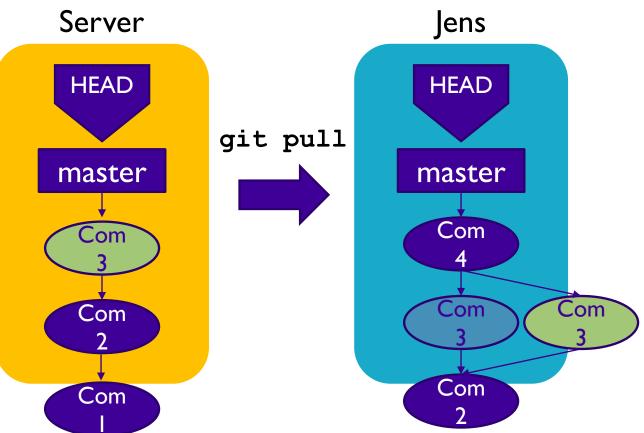




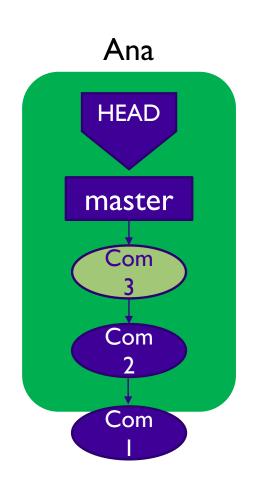


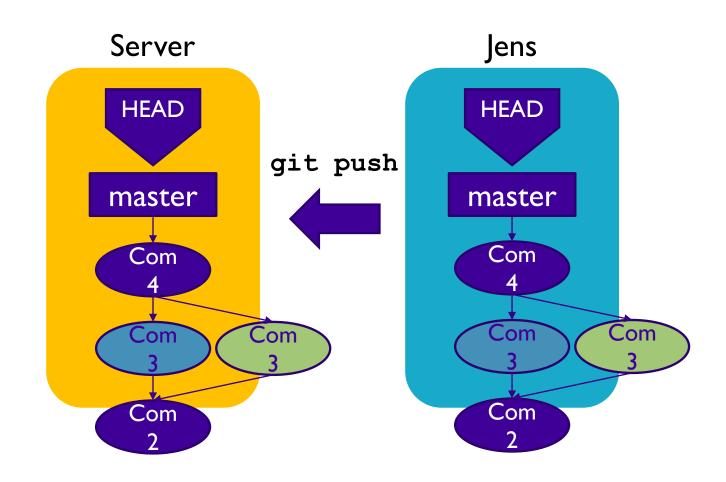




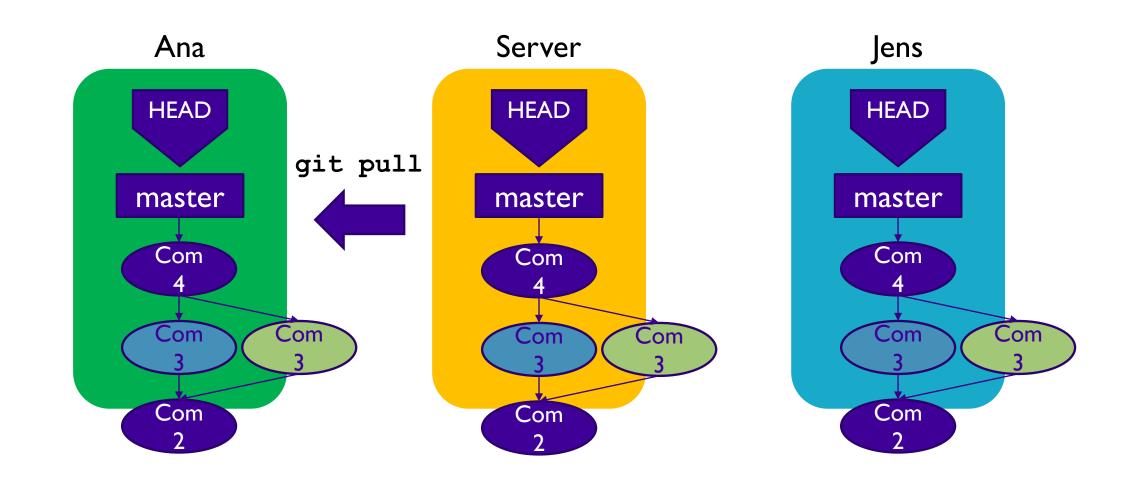








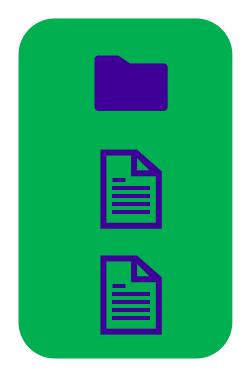


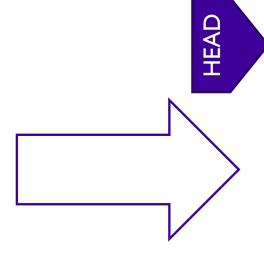




THE BRANCH

Ana's repo





master

Commit 6

Commit 5

Commit 4

Commit 3

Commit 2

Commit I

featureX

Commit 6b

Commit 5b

Commit 4b

Commit 3



GIT CHEAT SHEET

- git clone ...
 clone remote repository download an online repo
- git add ...add file to index make git take care of file
- git commit -m "..."...
 commit file(s) with commit message save file(s) under descriptive name
- git pullpull changes from remote repo load changes from server
- git push

push all commits to remote repo ... and branch ...

- git checkout ...put HEAD on a particular commit or a different branch
- git diff ...
 show changes of file ... in comparison to last commit
- git branch ...

 create new branch with name ...
- git log show list of commits
- git statusshow status of repository

FURTHER READING



git

Tutorial on git

https://rogerdudler.github.io/git-guide/index.html

git webpage

https://git-scm.com/

Codeacademy

https://www.codecademy.com/learn/learn-git

git GUI : gitAhead

https://gitahead.github.io/gitahead.com/

SSH

SSH tutorial

https://www.hostinger.com/tutorials/ssh-tutorial-how-does-ssh-work