from CVS to GIT

CVS issues

every commit is shared with your colleagues

when you break something, you **** your teammates

CVS issues

branching is not a quick task

CVS issues

someone can delete the whole project
i was there when it happened at GEC

« le vamos a cortar el dedo a alguien »
i read that email

CVS issues

everything takes time

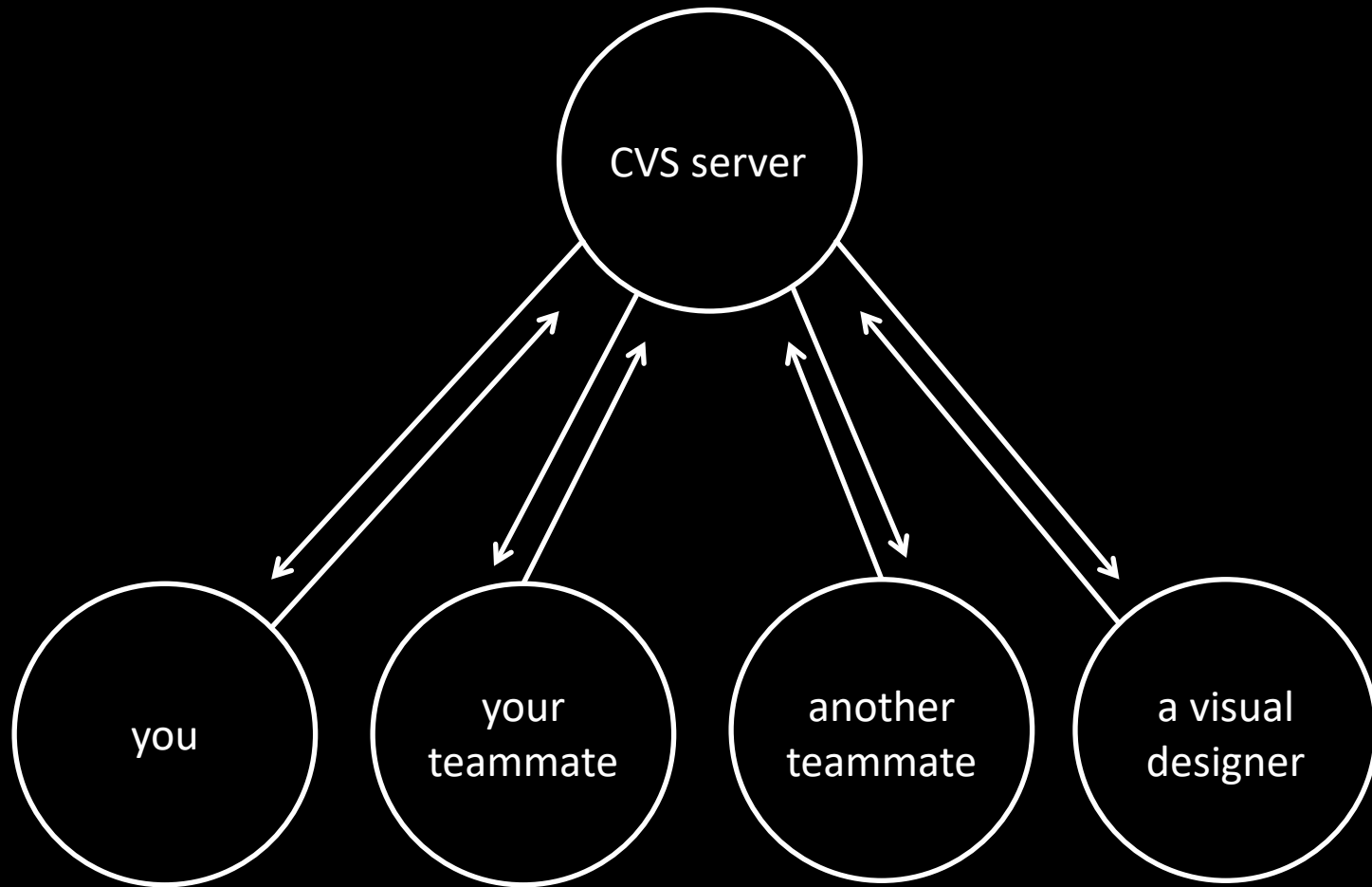creating a branch
creating a tag
showing the history
comparing with the past
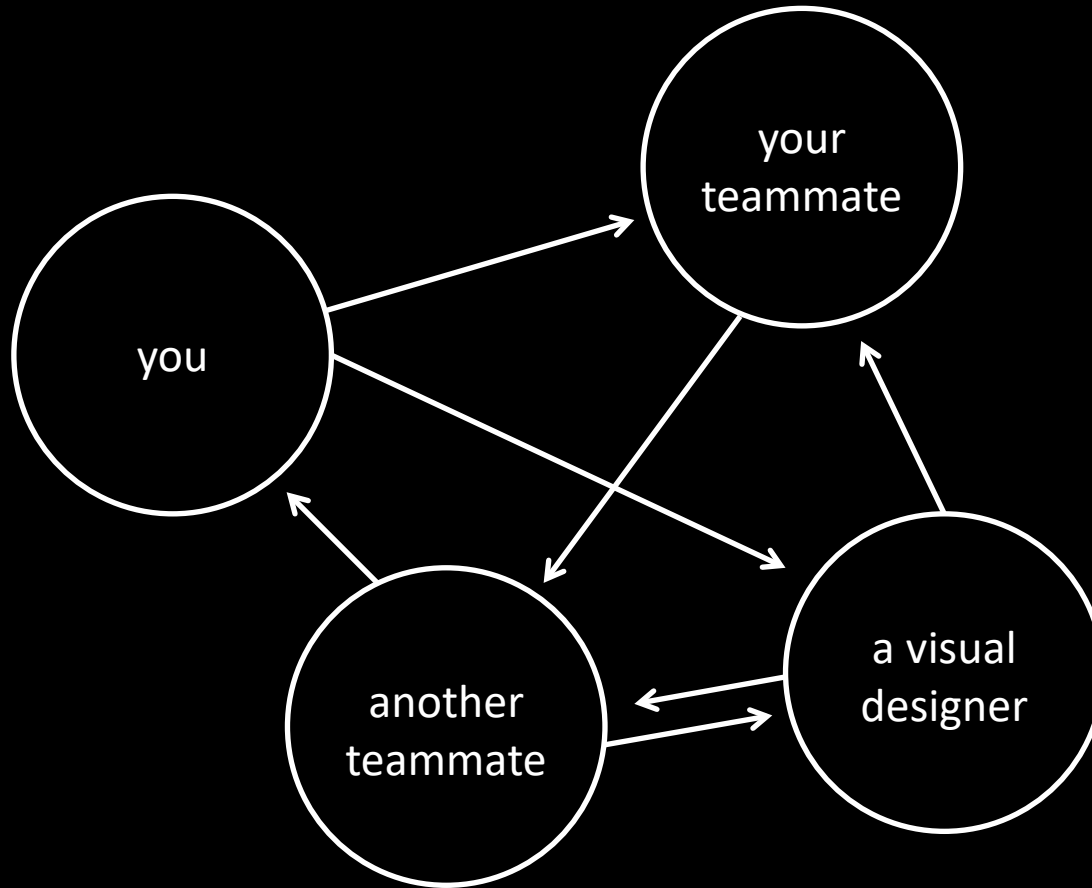
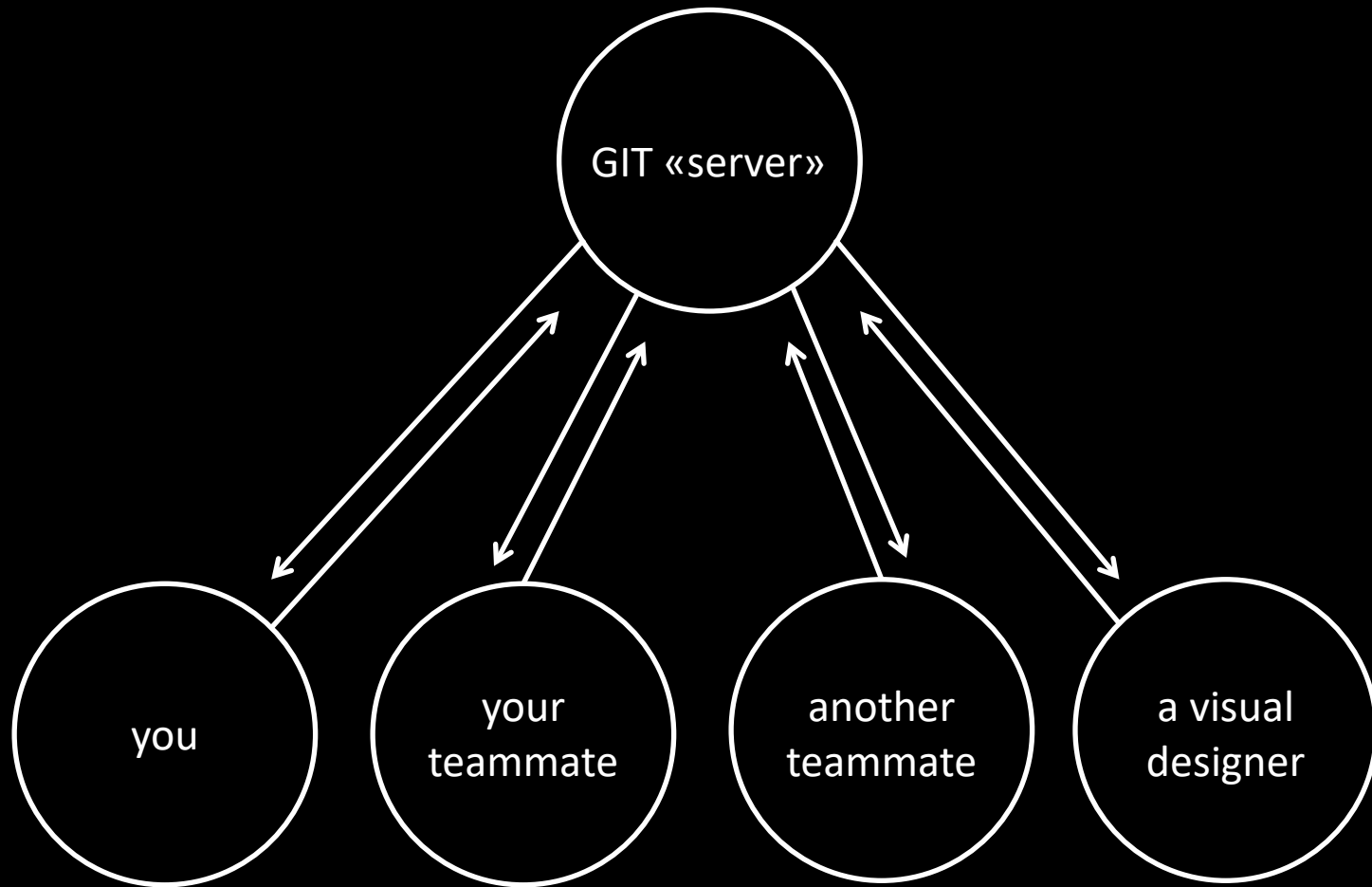so... it's not common to use these features

whot's CVS?

whot's GIT?

whot's CVS?

whot's GIT?

whot's GIT?

so... differences?

CVS

commit goes to server
branch goes to server
tag goes to server
problems goes to server
the data is in several places
you need internet

GIT

commit goes to localhost
branch goes to server
tag goes to server
problems goes to server
whole history is in the .git file
you don't need internet

GIT glossary

commit

A single point in the Git history. The entire history of a project is represented as a set of interrelated commits.

GIT glossary

branch

An active line of development.
Your working tree is associated with just one branch.

GIT glossary

tag

A tag is most typically used to mark a particular point in the commit ancestry chain.

GIT glossary

merge

To bring the contents of another branch into the current branch. Merging is performed by an automatic process that identifies changes made since the branches diverged, and then applies all those changes together. In cases where changes conflict, manual intervention may be required to complete the merge.

let's play!

GIT commands

setup your user

git config --global user.name "Roc Boronat"
git config --global user.email roc@fewlaps.com

GIT commands

check your configuration

git config --list

GIT commands

help!

git help commit

GIT commands

create a repository

git init

GIT commands

add files

git add Main.java
git add *.java
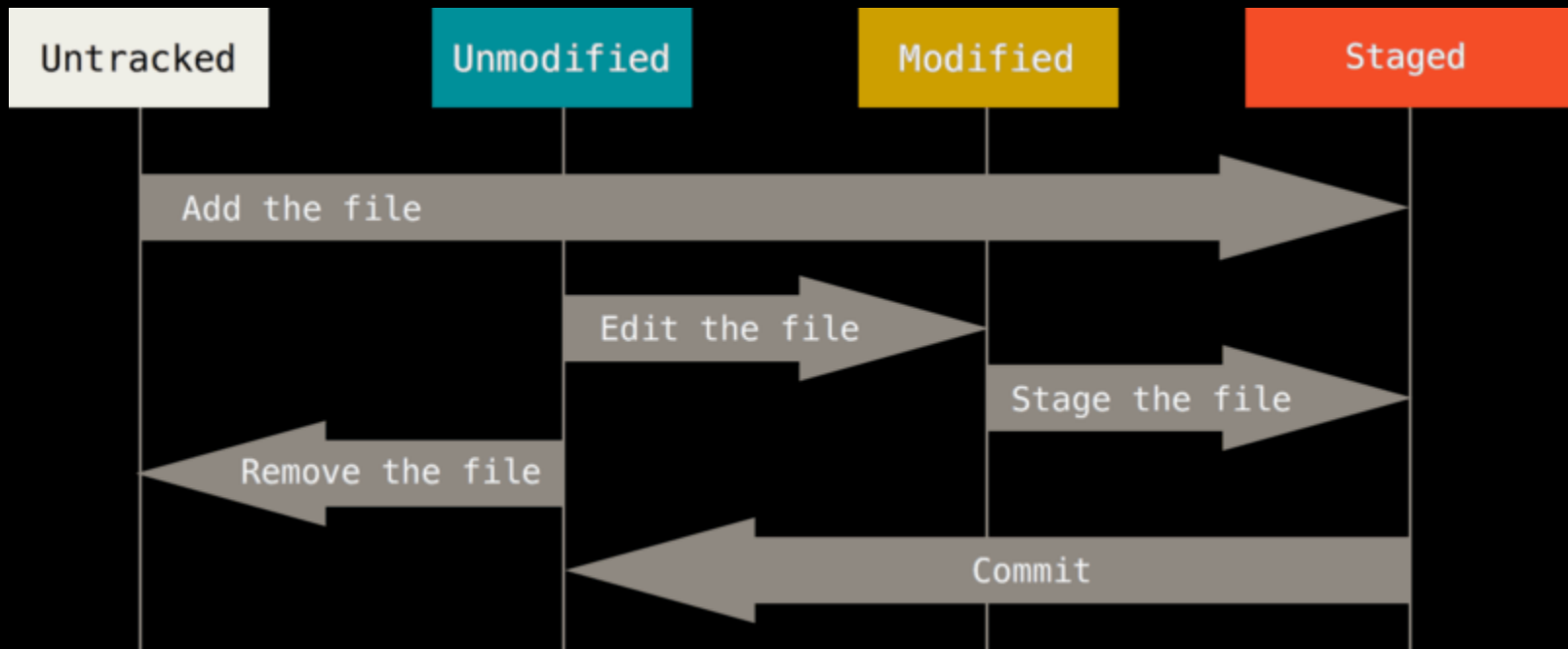git add *.java

GIT commands

commit changes

git commit   // will open vim

git commit –m "your message«

git commit –a   // to also do an add

GIT commands

GIT commands

status of the repo

git status
git status -s
git status -short

GIT commands

commit history

git log

GIT glossary

remote repository

A repository which is used to track the same project but resides somewhere else.

GIT commands

add a remote

git remote add *[shortname] [url]*

"origin" is the shortname of the default remote

GIT glossary

push

To put local objects into the
remote object database

GIT commands

push your changes

git push *[remote] [branch]*

GIT glossary

pull

To fetch a branch and merge it.

GIT commands

pull changes from remote

git pull *[remote] [branch]*

clone this presentation

git clone https://github.com/rocboronat/from-cvs-to-git

and squash it

git rebase -i HEAD~3

questions?

git help beers