

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

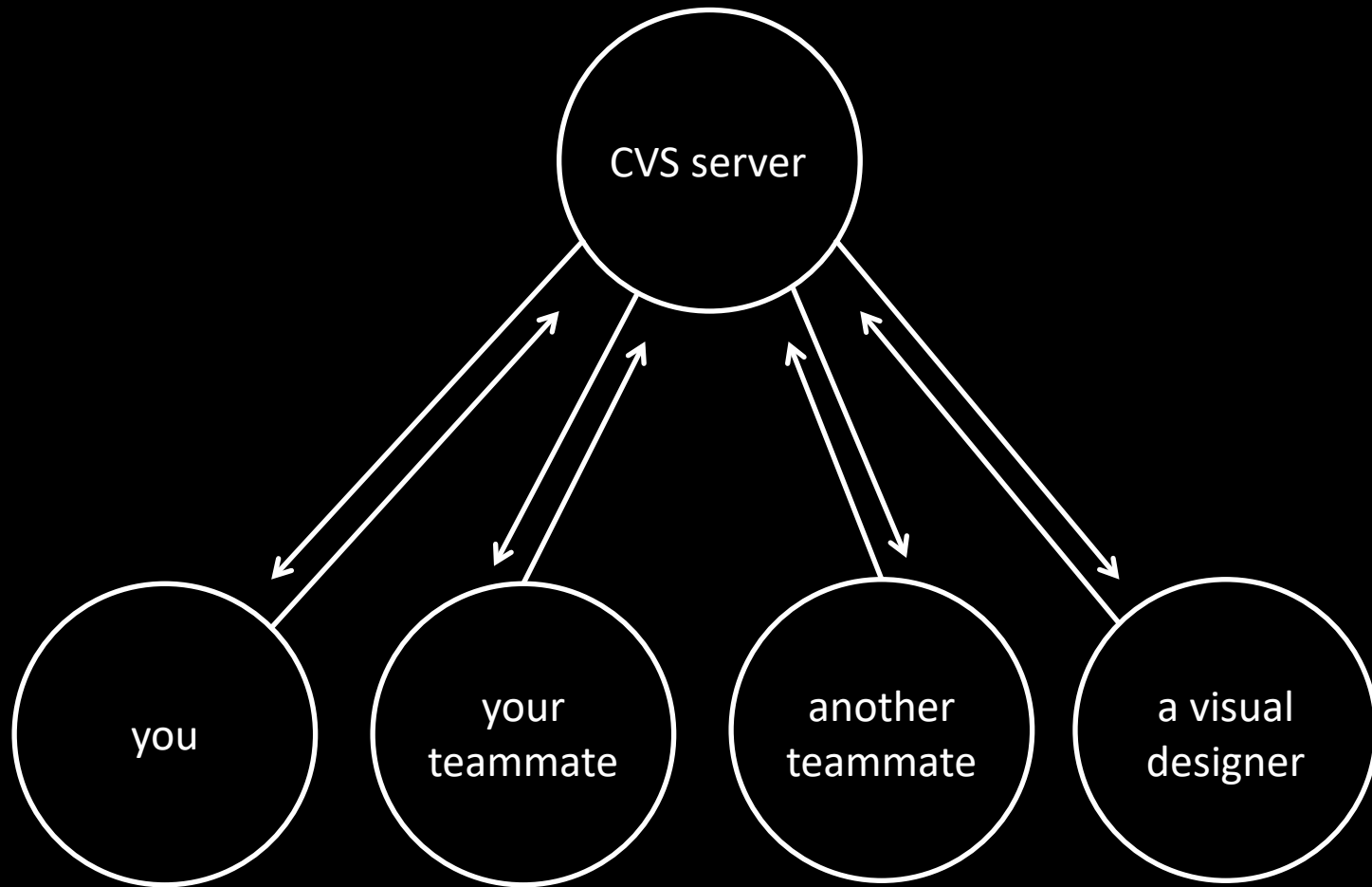
comparing with the past

so... it's not common to use these features

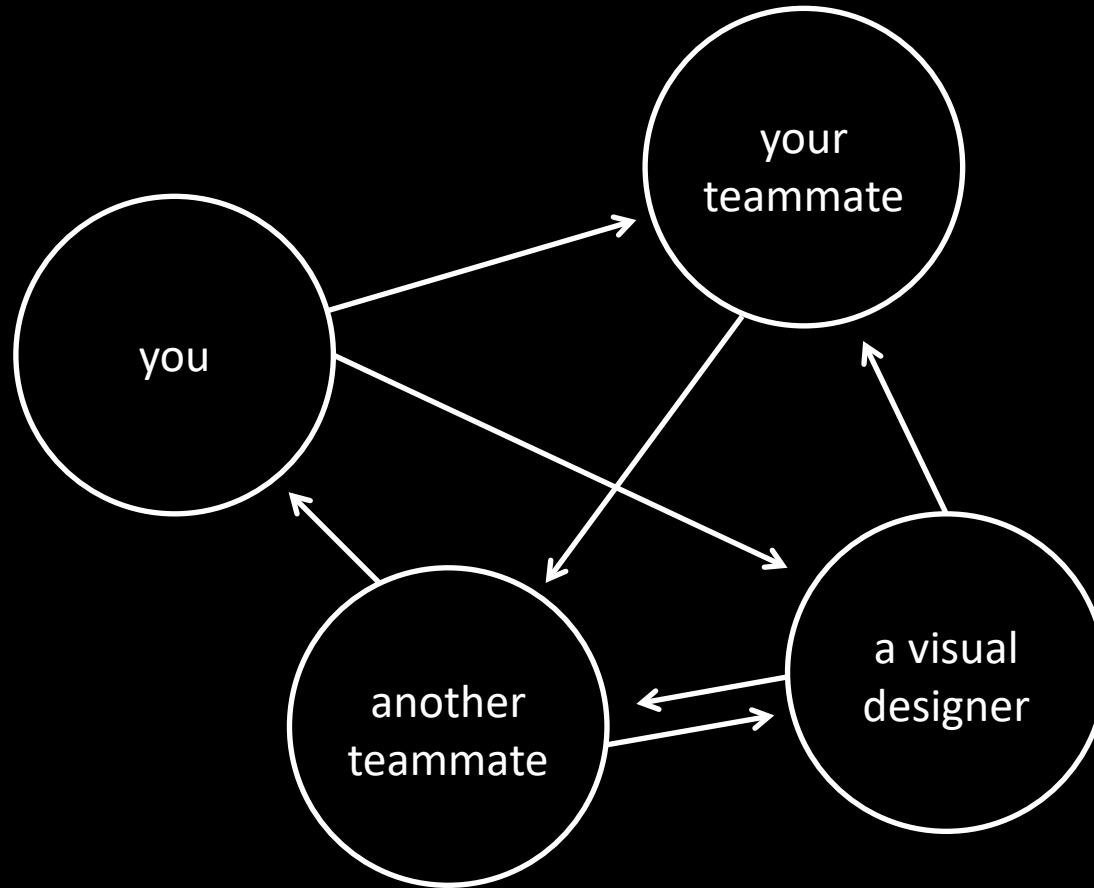
what's CVS?

what's GIT?

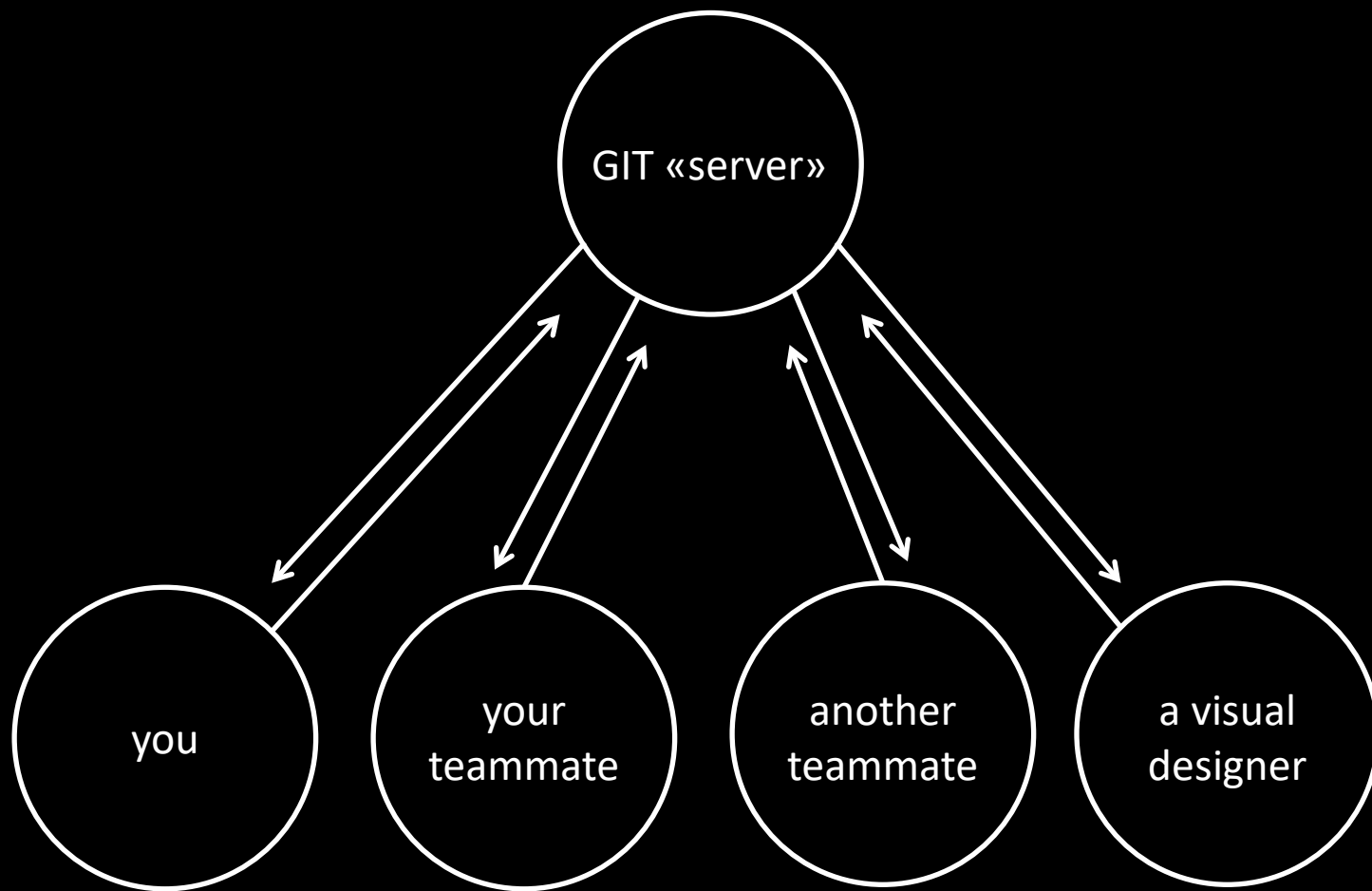
what's CVS?



what's GIT?



what's GIT?



so... differences?

CVS

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

GIT

- commit goes to localhost
- branch goes to localhost
- tag goes to localhost
- problems go to localhost
- 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

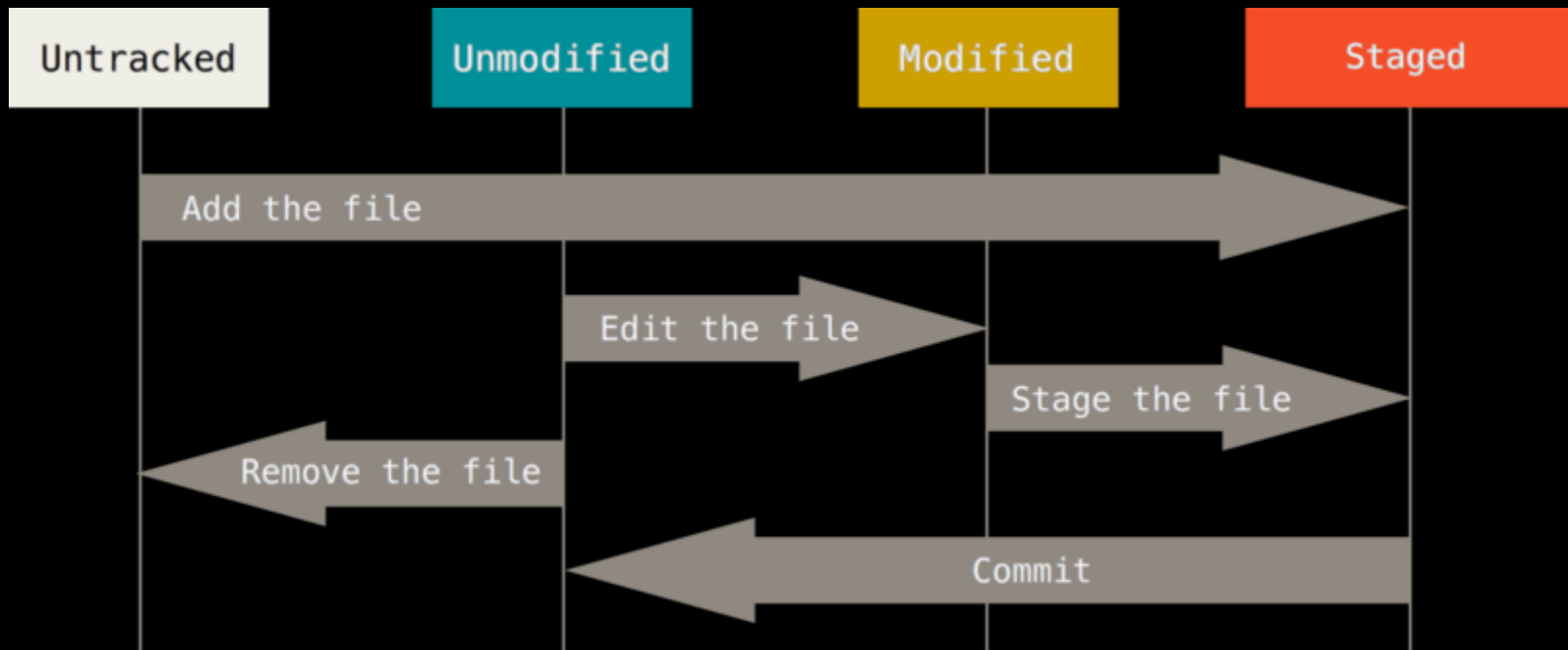
commit changes

`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