

Hello

@jaspervdj, @nudded

Episode 1

What is Git?

What is a VCS

Version
Control
System

Why VCS

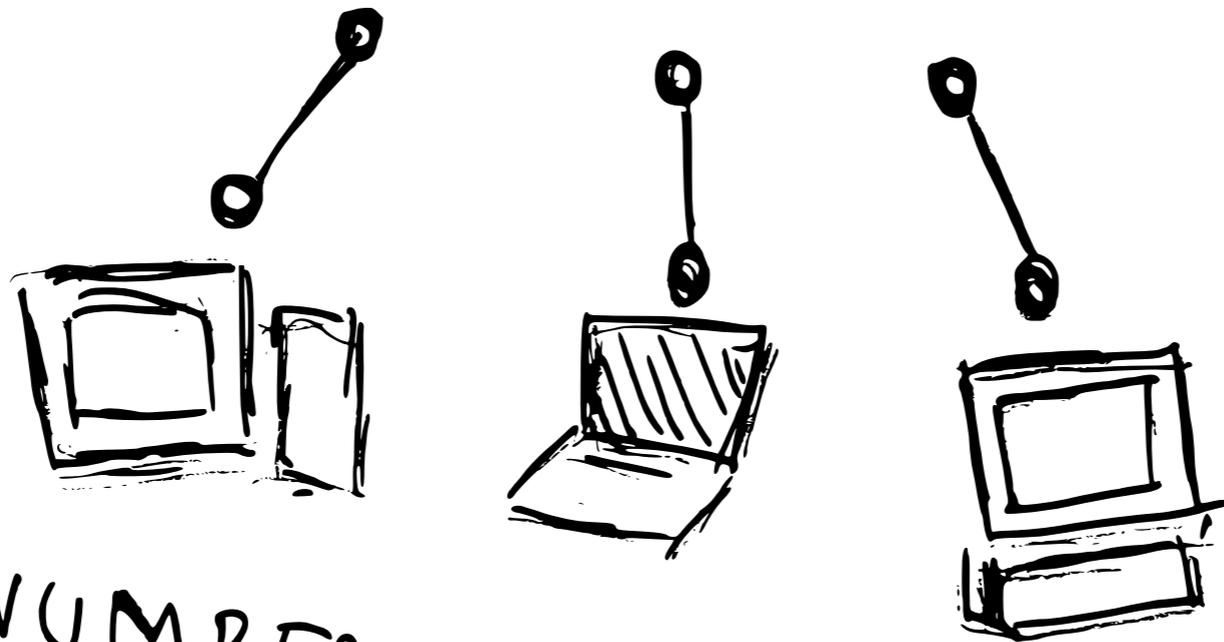
Having revisions is handy

Serves as a backup

Working together

You will have to use it for your job

A CENTRAL SERVER



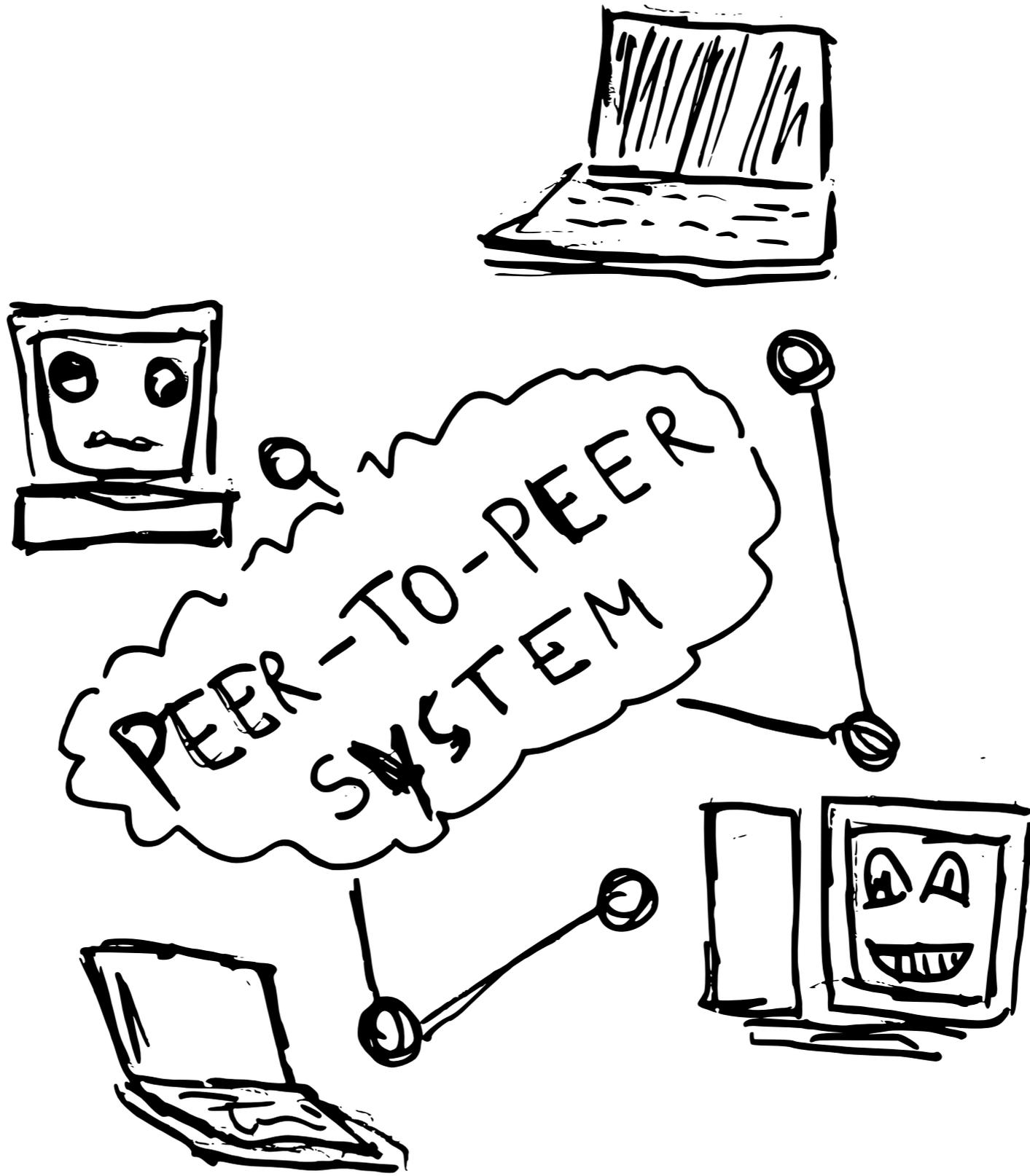
NUMBER OF MINIONS

Introducing the D

Distributed

Notion of central server is gone

Everybody has its own copy



Why Git

Blazingly fast

Github.com

Easy branching and merging

No internet access needed

Episode 2

Baby steps

Basics

Creating a new repo

```
mkdir repo
```

```
cd repo
```

```
git init
```

Committing

the index

```
git status
```

adding files to the index

```
git add file
```

committing

```
git commit
```

WORKING COPY

GIT ADD
↓

STAGING AREA
(A.K.A. INDEX)

GIT COMMIT
↓

ACTUAL REPO

Seeing the history

Look at all the commits with

```
git log
```

Undo add

Removing something from the index

```
git reset file
```

Diffing

See your changes since the last commit

```
git diff
```

Changes added to the index

```
git diff --staged
```

Episode 3

Cooperation

Work in teams of 2

See your team number on the paper you've received

Decide who is person A and who is person B

Remotes

Adding remotes (servers/peers)

```
git remote add name url
```

Cloning

```
git clone url
```

Setup

ssh://guest@zeus.ugent.be:2222/~repoXX

protocol: ssh://

user: guest

password: guest

host: zeus.ugent.be

port: 2222

path: ~/repoXX

Making local changes



USE YOUR FAVORITE EDITOR

Push

Add and commit your changes.

Now push'em back to the remote.

```
git push
```

Merging

Server can't resolve conflicts, so you have to do it. Pull the latest server code.

```
git pull
```

Edit the file(s) to resolve conflicts and commit

Episode 4

Season Finale

Branches

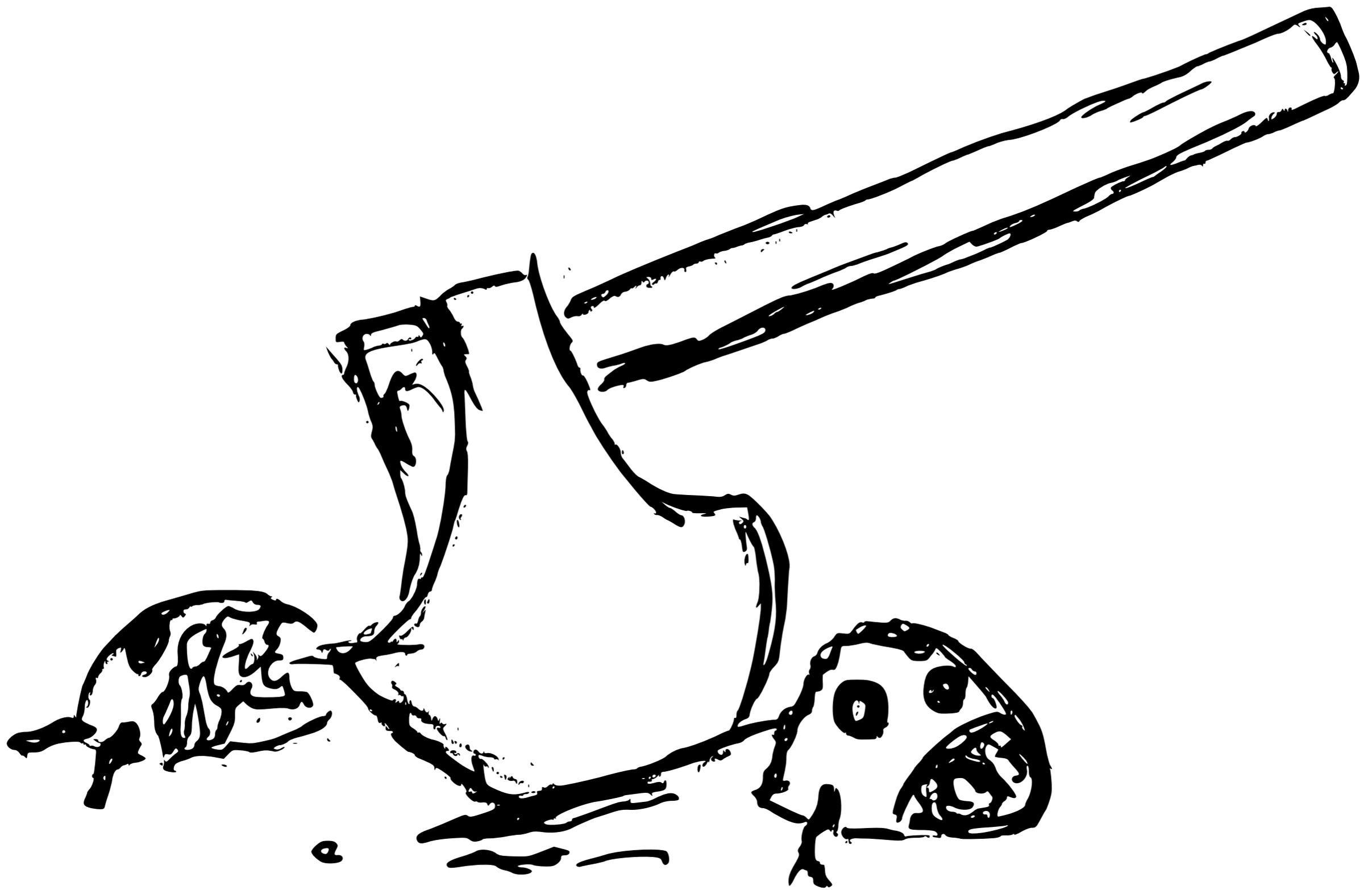
Experimenting

Master ← Develop

Finding bugs

Git bisect will tell you which commit introduced a bug

Can be fully automated



Stash and pop

quick way to store and restore changes

Moar information?

progit.org

‘Version Control with Git’

KWESTIONZ?