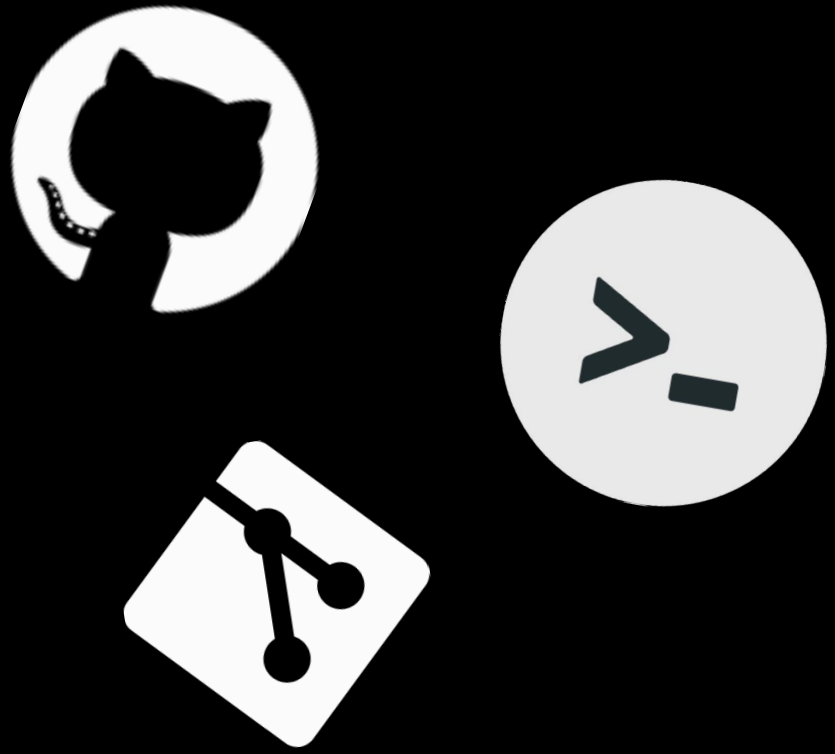
project-tech

GitHub, Terminal & Concept

lab 1/8

today

I. Course (recap)
II. GitHub & Git
III. Terminal (CLI)
IV. Concept



Course

course

description

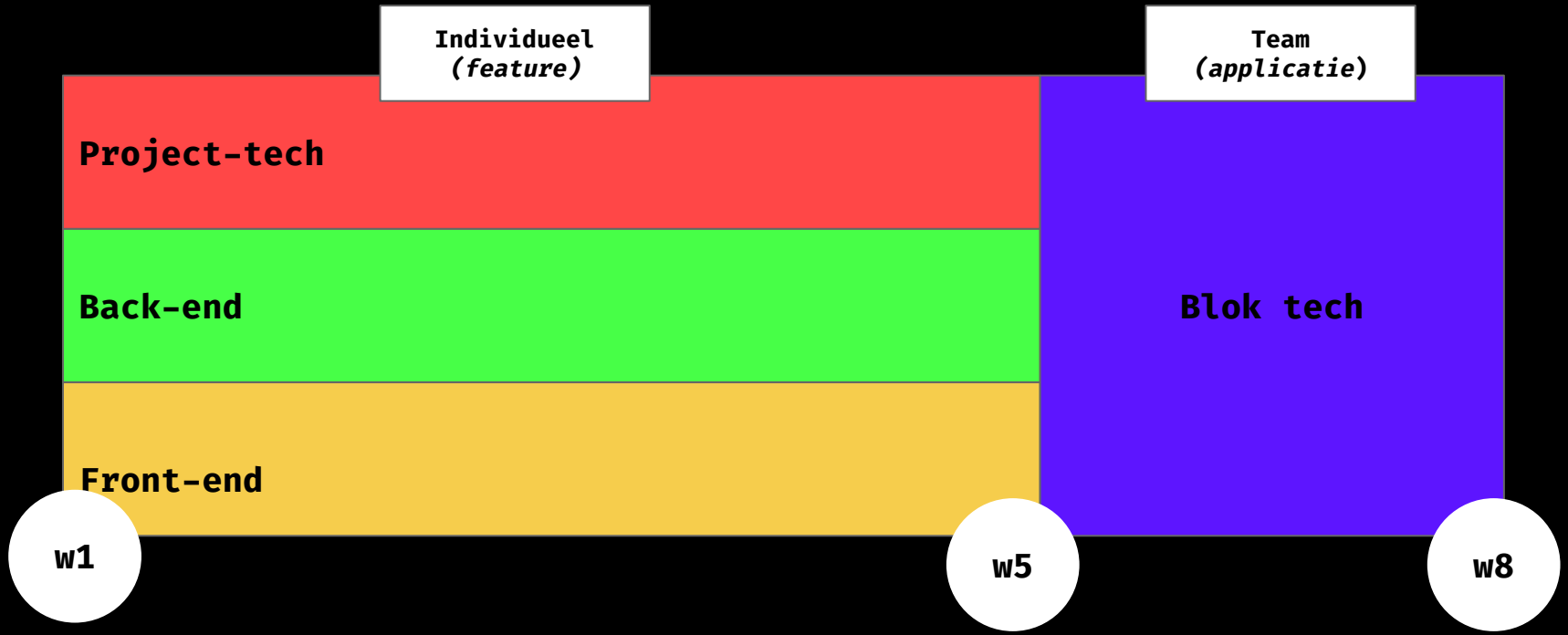
Project Tech is your first stepping stone to become a well-rounded web developer. **You'll build a dynamic prototype of a matching application.** You'll learn about the "softer" skills; reading documentation, collaboration and "harder" skills; how to use the command line, version control.

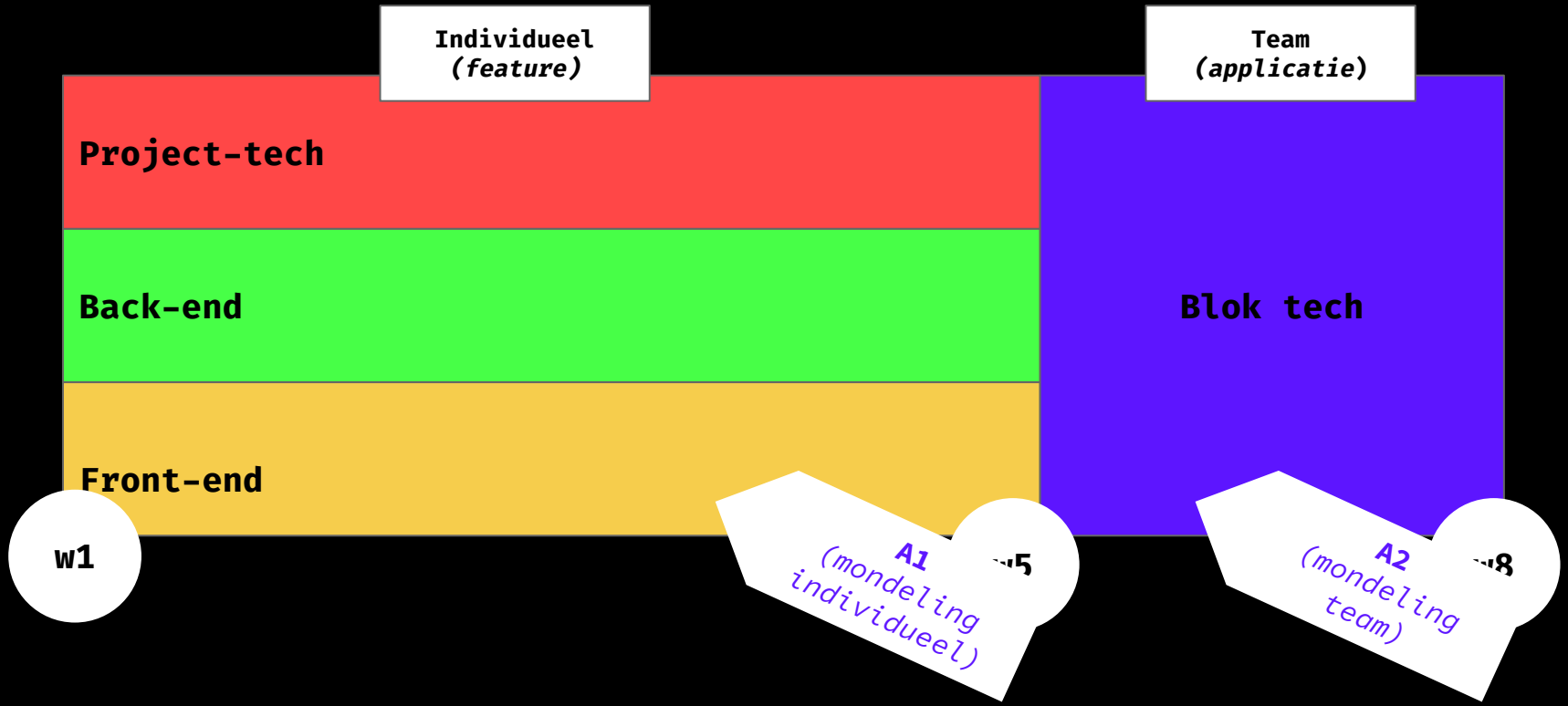
/readme.md

course

goals

- You can design and develop a dynamic matching app
- You can use version control using Git and GitHub
- You can navigate the terminal
- You can set-up your own development env
- You can write documentation
- You can collaborate and review code
- You adhere to code standards


Individueel
(feature)
Team
(applicatie)
Project-tech
Back-end
Front-end
Blok tech
w1
w5
w8


Individueel
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w1
A1
(mondeling
individueel)
A2
(mondeling
team)

course

deliverables

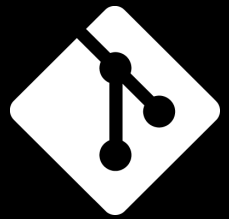
- **Individual Prototype:** working **interactive feature** for serious relationships
- **Team Prototype:** working **interactive dating site** for serious relationships
- **Process book (wiki):** that provides insight into the weekly iterative process

GitHub & Git

Git is version control for code

bash

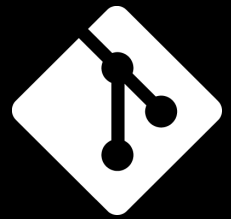
```
[examples] $ git init

Initialized empty Git repository in
/Users/tilde/projects/oss/examples/.git/

[examples] $ echo "Hello World!" > readme.md

[examples] $ git add --all

[examples] $ git commit --message "Add readme"

[master (root-commit) 0ee1887] Add readme
 1 file changed, 1 insertion(+)
 create mode 100644 readme.md

[examples] $
```



git

description

Git is a version control system for tracking changes in computer files and coordinating work on those files among multiple people.



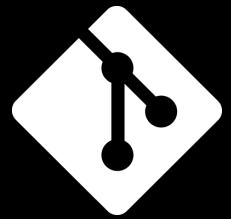
wikipedia.org

git

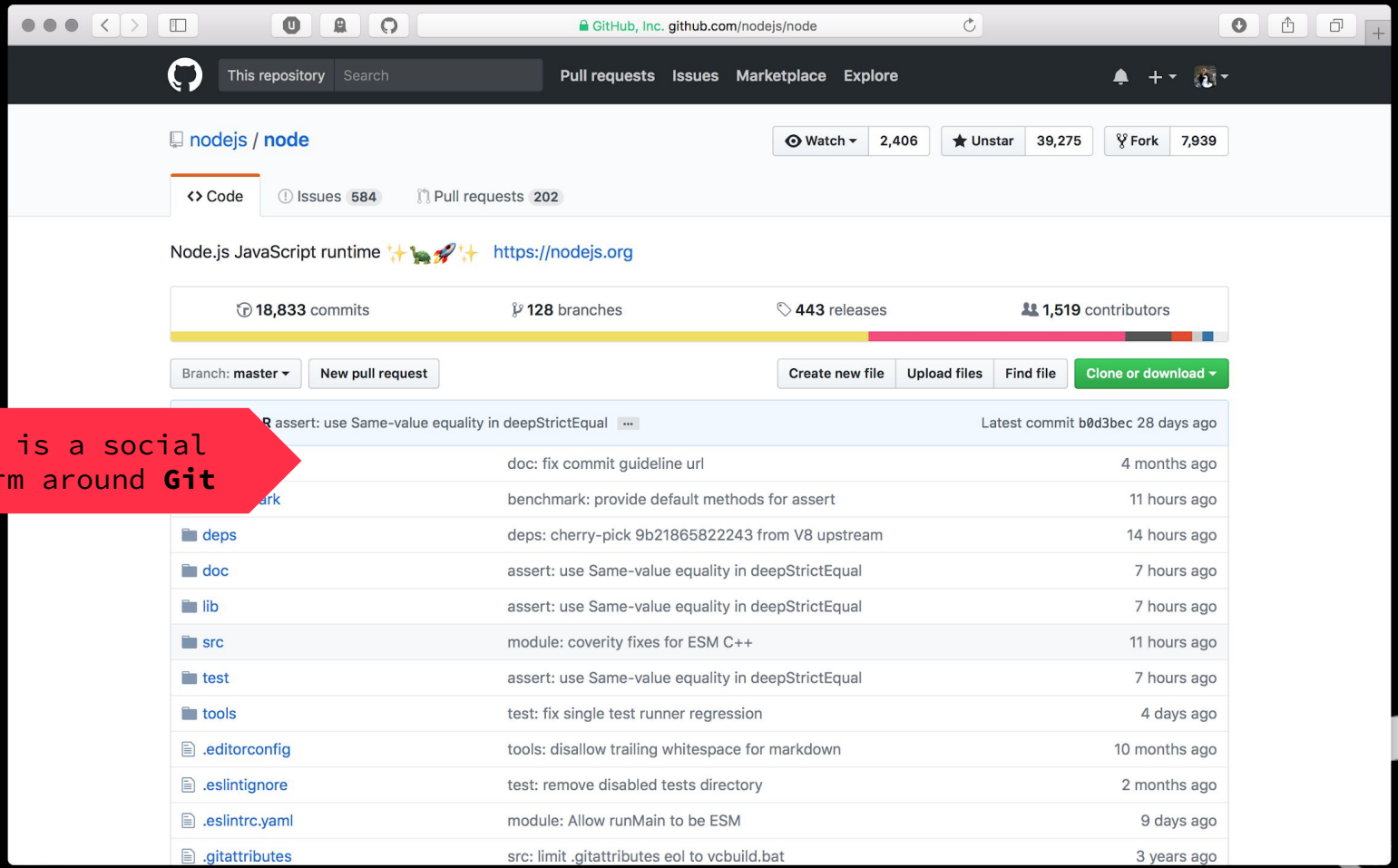
description

Collaborate, track, roll back

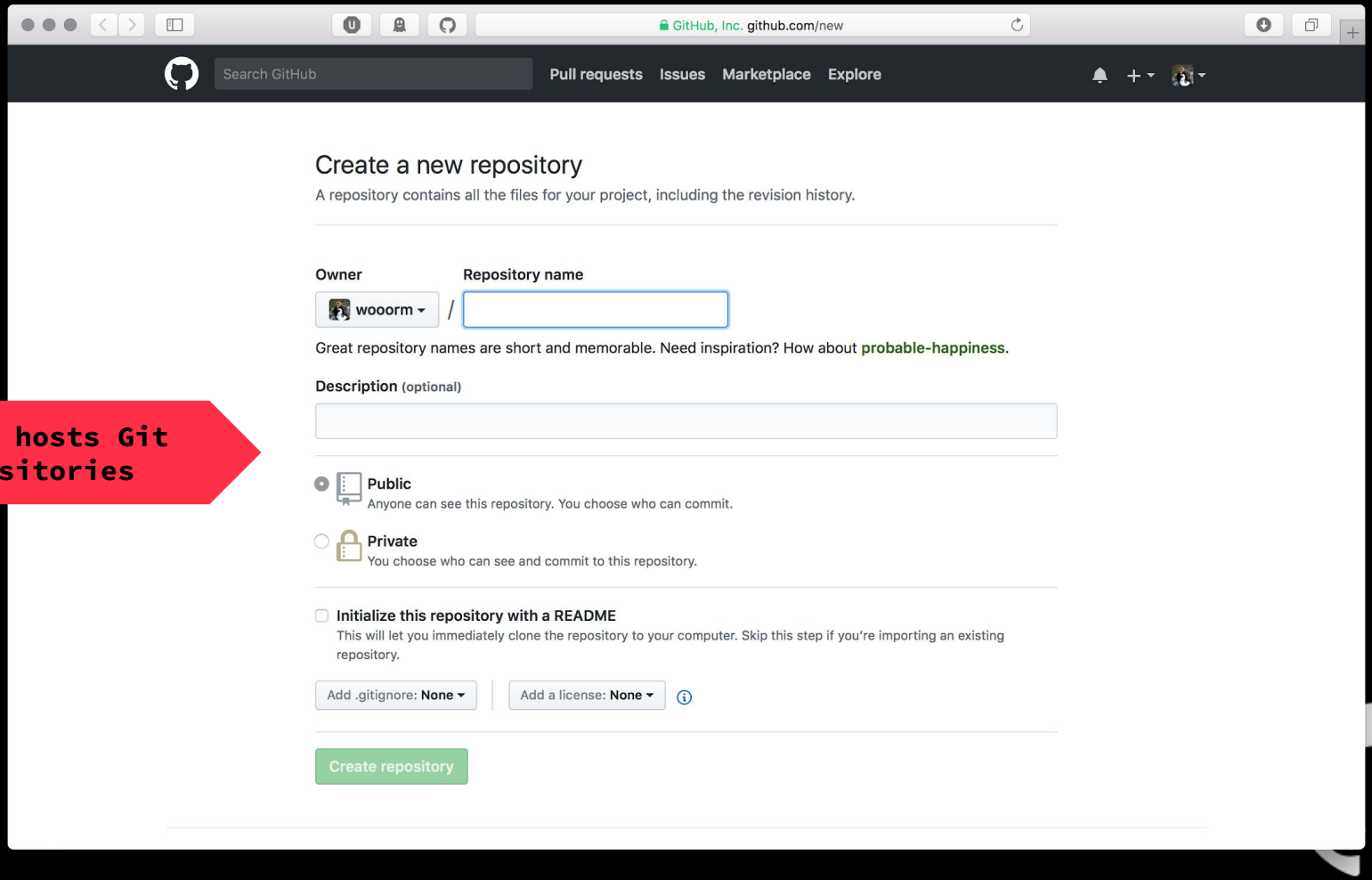
Git is a version control system for tracking changes in computer files and coordinating work on those files among multiple people.



wikipedia.org

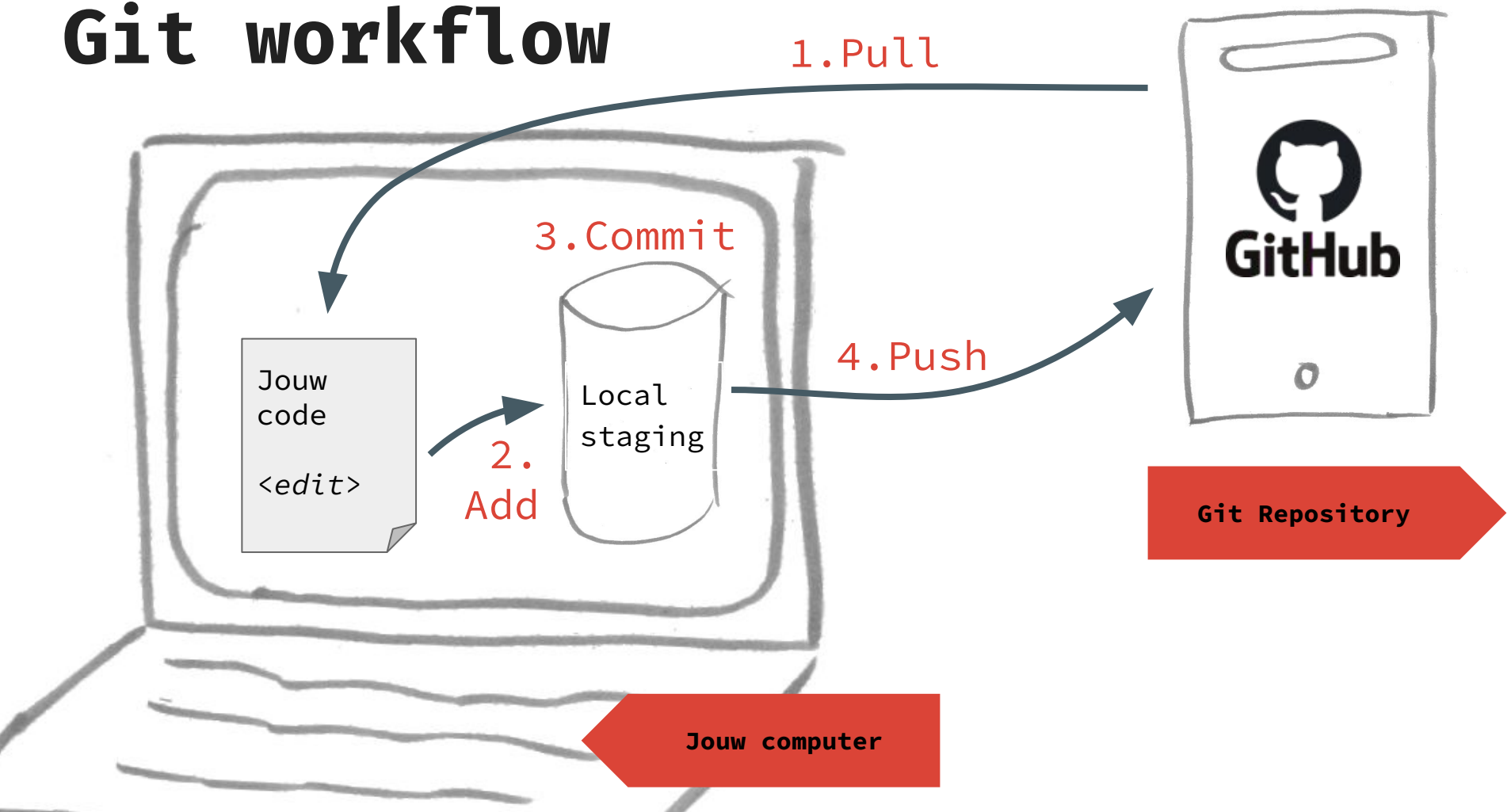


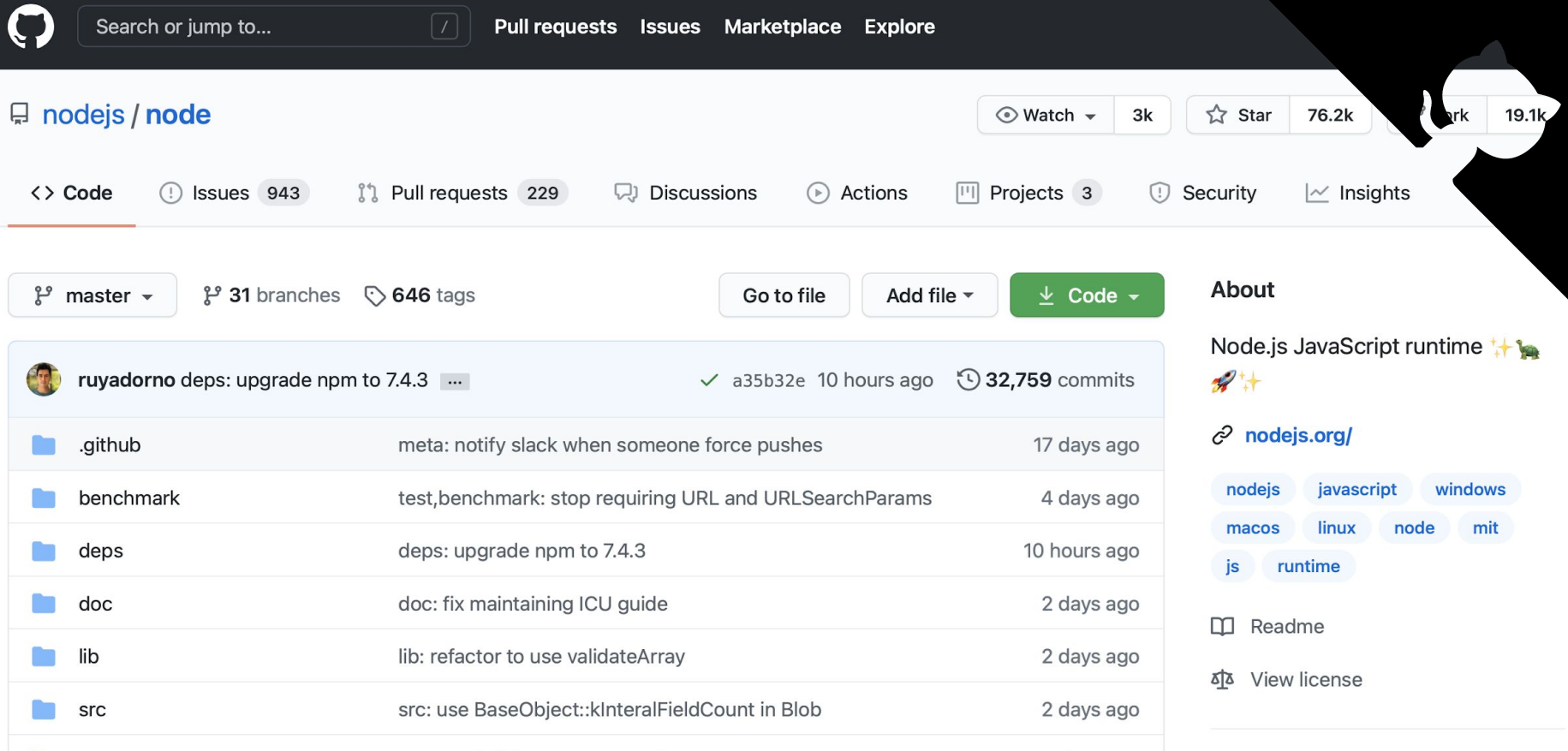
GitHub is a social platform around **Git**



GitHub hosts Git repositories

Git workflow





live demo **GitHub repository**

Terminal

cli

description

A command-line interface (CLI) […] is a means of interacting with a computer program where the user […] issues commands to the program in the form of successive lines of text […]. A program which handles the interface is called a […] shell

wikipedia.org

cli

description

A command-line interface […] ns of interacting with a computer program where the user […] issues commands to the program in the form of successive lines of text […]. A program which handles the interface is called a […] shell

Alternative to **GUI** and the like

wikipedia.org

cli

description

A command-line interface […] ns of interacting with a computer program where the user […] issues commands to the program in the form of successive lines of text […]. A program which handles the interface is called a […] shell.

Alternative to **GUI** and the like

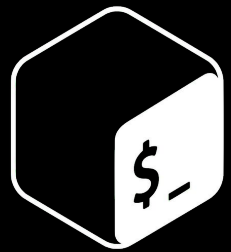
Note: Servers often have a CLI (not a GUI).
To control a server you need elementary knowledge of CLIs.

cli

bash

Bash is a Unix shell and command language […] it has been distributed widely as the default login shell for most Linux distributions and Apple's macOS […]. A version is also available for Windows 10.

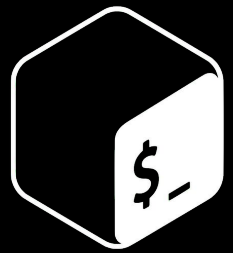
wikipedia.org



cli

command

```
[~]$ rm -f foo.txt
```



cli

command

```
[~]$ rm -f foo.txt
```

Prompt

Command

Options

Arguments

cli

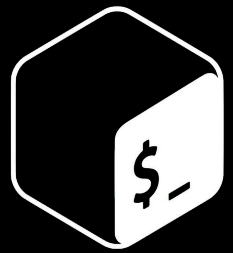
commands

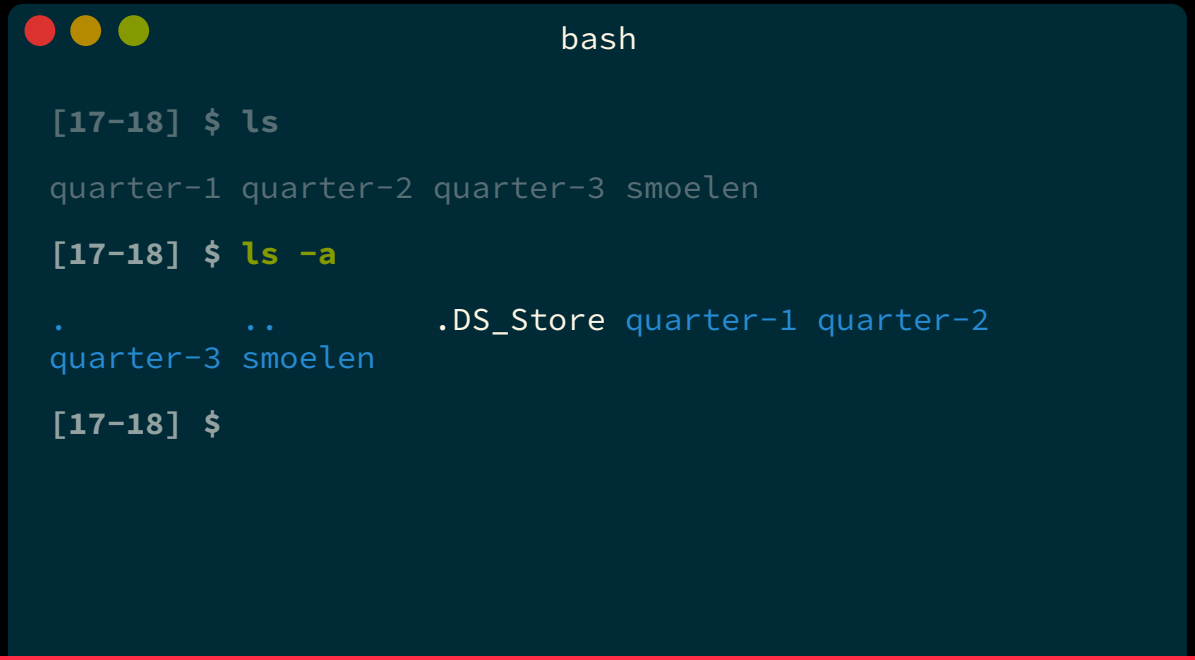
pwd	navigate	print working directory
ls	navigate	list directory contents
cd	navigate	change working directory
touch	files	create file or change file access time
mkdir	files	make directory
rm	files	remove
mv	files	move
cp	files	copy
cat	files	concatenate files
echo	files	print
curl	files	transfer data
less	apps	read
vim	apps	write
man	apps	read the manual
sudo	rights	do something as someone else

bash

```
[17-18] $ pwd
/Users/tilde/Dropbox/hva/17-18
[17-18] $
```

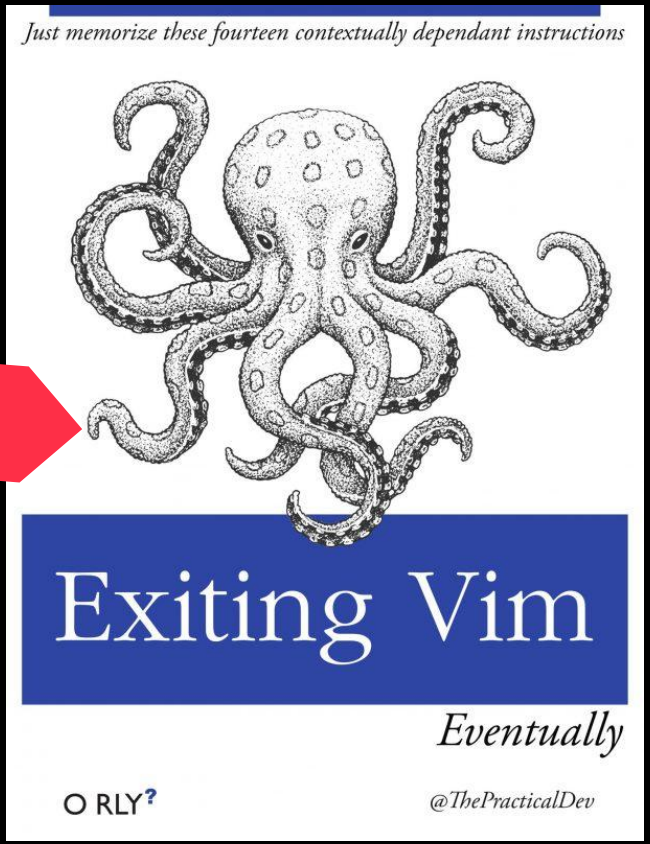
This it the terminal

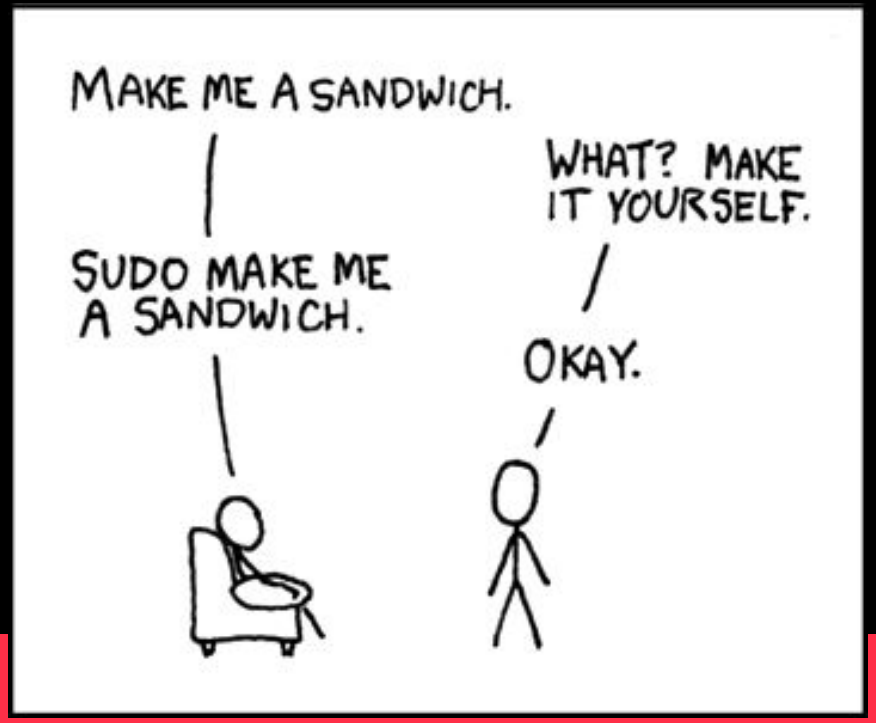




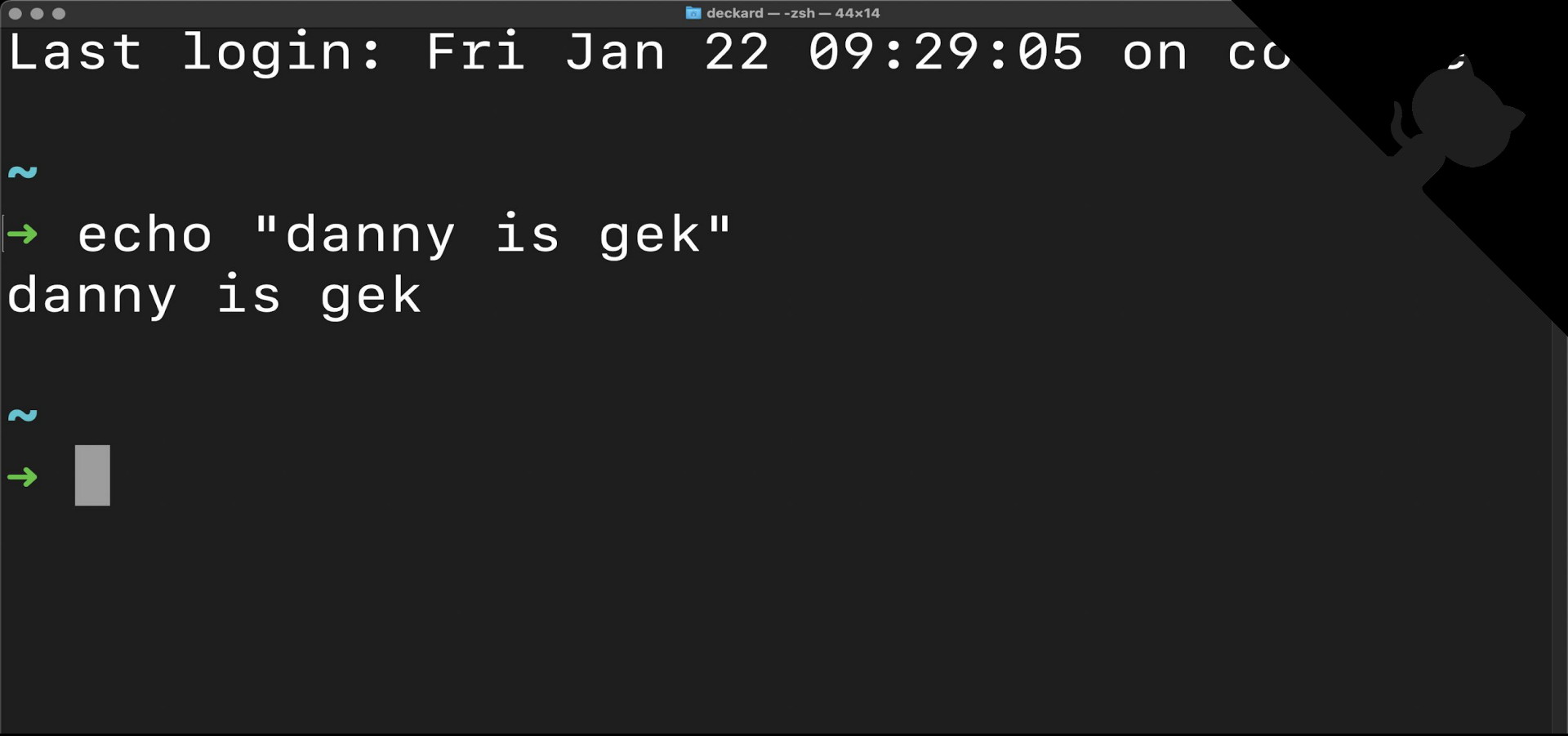
Note: files starting with a **.** are hidden by default
ls -a shows them. These are called ‘dotfiles’.

Tip: `!Q` to stop


Just memorize these fourteen contextually dependant instructions
Exiting Vim
Eventually
O RLY?
@ThePracticalDev



Note: things often are not allowed because they are dangerous. Sudo is **very** dangerous.



live demo **Terminal**

Concept

concept

matching

- **Finding connection;** being together, mutual interest
- **Main user interactions:** liking, filtering, chatting
- **Difficulties:** connection, truthfulness
- **Dangers:** fake persons, cheaters

concept

types

The Mathematics of Love by Hannah Fry

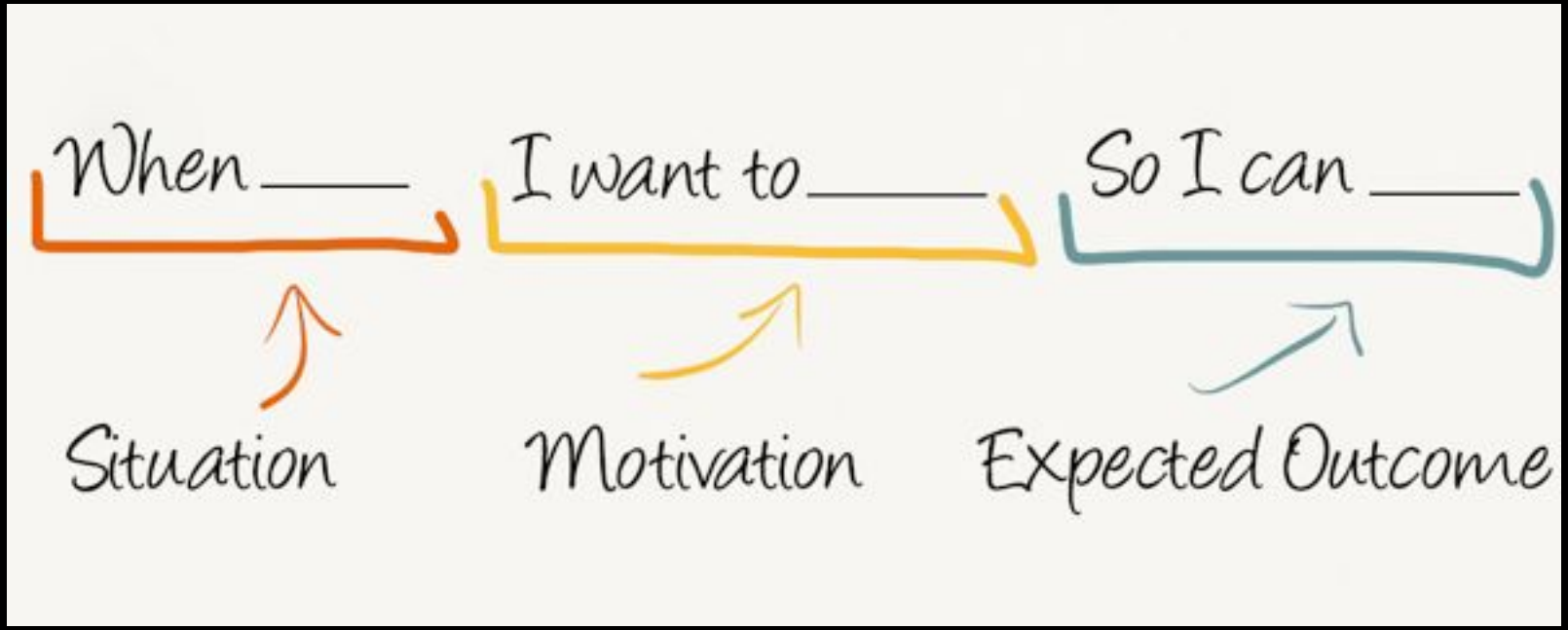
concept

connection

Human Emotion 10.3 by Yale University

concept

job stories



Replacing the User Story with Job Story

assignment

Draw & write down as many **concept ideas** that you have right now for the feature that you are going to create.

- What’s the target audience going to be?
- What’s the look and feel of the application?
- What are the main user interactions?

assignment

Once you have an idea about your overall concept, make it concrete by **picking a specific feature to work on.**

- Write ~5 **job stories** and pick one
- Split up your job story into a **requirements list**
- **Sketch a wireframe** of the interface

Assignments

Octocat

> Learn the basics of Git and the social coding platform GitHub.

Synopsis

- **Time**: 3:00h
- **Goals**: subgoal 1, subgoal 2
- **Due**: before week 2

Take a couple of hours to understand what open-source means and how GitHub and Git works. It's not a ton of reading material, these are usually short articles you can read in ~7/8 minutes.

work on **octocat, terminal & concept**

exit;

see you in lab-2!