

# project-tech

Concept, GitHub, Terminal

lab 1/8

# today

I.Course (recap)

II.Concept (job stories)

III.GitHub & Git

IV.Terminal (CLI)



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

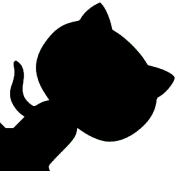
# course

# 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

Concept

# assignment

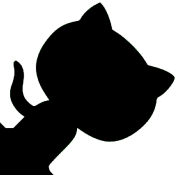


Draw & write down as many **concept ideas** that you have right now for the feature that you are going to create.

- 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**
- Split up your job story into a **requirements list**
- **Sketch a wireflow** of the interface



Break!

# 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](https://en.wikipedia.org)

# cli

# description

A command-line interface is a way 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](https://en.wikipedia.org/wiki/Command-line_interface)

# cli

# description

A command-line interface is an alternative to GUIs 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

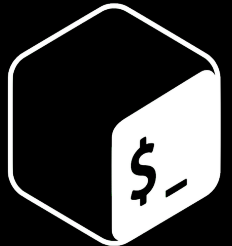
**Note:** Servers often have a CLI (not a GUI).  
To control a server you need elementary knowledge of CLIs.

# 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.

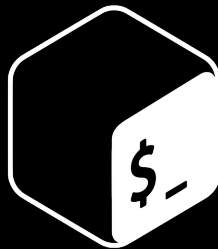
[wikipedia.org](https://en.wikipedia.org)



cli

command

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





cli

command

[~]\$ rm -f foo.txt

Prompt

Command

Options

Arguments

\$-

# cli

## commands

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

```
bash

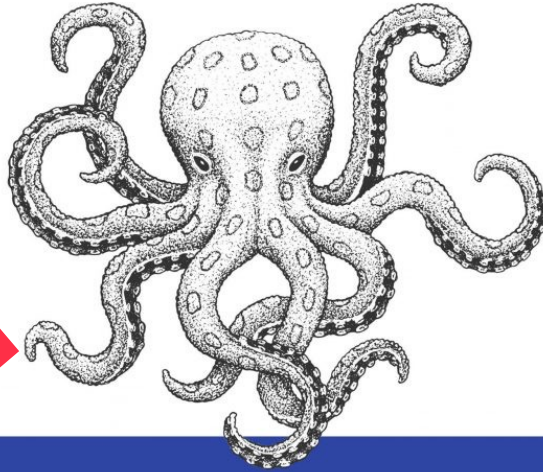
[17-18] $ ls
quarter-1 quarter-2 quarter-3 smoelen

[17-18] $ ls -a
.          ..          .DS_Store
quarter-1 quarter-2 quarter-3 smoelen

[17-18] $
```

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

*Just memorize these fourteen contextually dependant instructions*



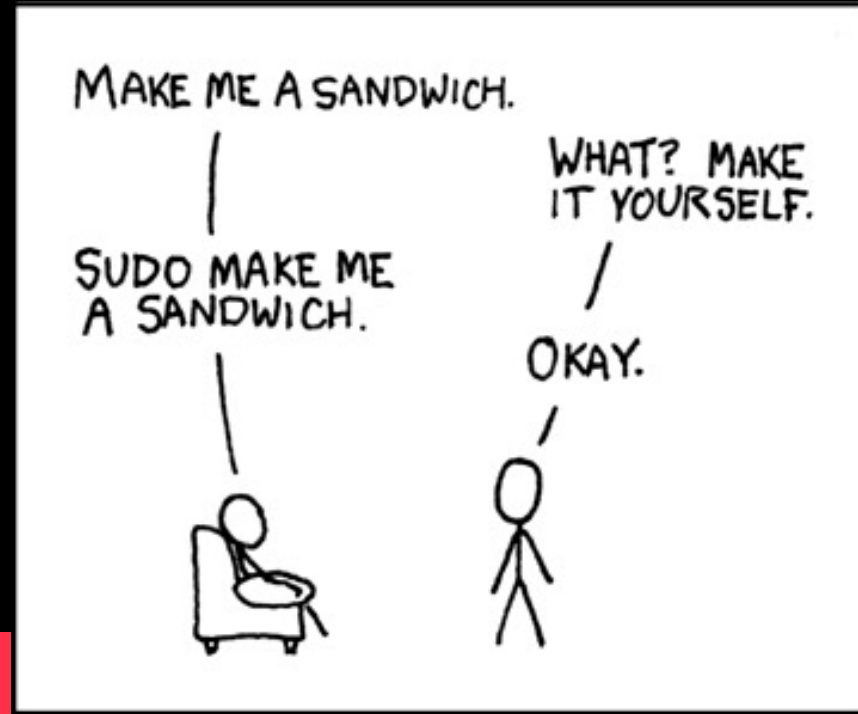
Tip: `!Q` to stop

# Exiting Vim

*Eventually*

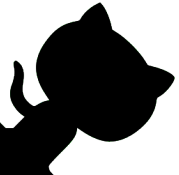
ONLY?

@ThePracticalDev



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

# assignment



Try a couple of ‘common’ actions with commands;

- Navigate to your Documents folder and create a test.txt
- Navigate to your /root folder and list all items
- Navigate back to your Documents and remove the test.txt
- Enter and exit Vim

Last login: Fri Jan 22 09:29:05 on co

~

→ echo "danny is gek"  
danny is gek

~

→

live demo Terminal

GitHub & Git



**Git** is version  
control for code

```
bash

[examples] $ git init

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

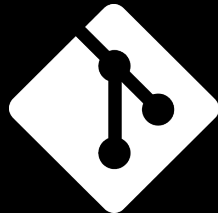
[examples] $ echo "Hello World!" > readme.md

[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] $
```

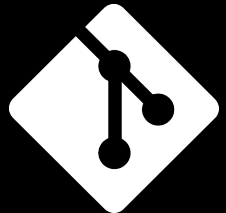


# git

description

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

[wikipedia.org](https://wikipedia.org)



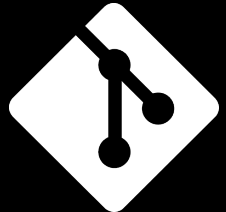
# git

description

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

Collaborate, track,  
roll back

[wikipedia.org](https://wikipedia.org)



GitHub, Inc. github.com/nodejs/node

This repository Search Pull requests Issues Marketplace Explore

nodejs / node Watch 2,406 Unstar 39,275 Fork 7,939

Code Issues 584 Pull requests 202

Node.js JavaScript runtime 🌟🐉🚀🌟 <https://nodejs.org>

18,833 commits 128 branches 443 releases 1,519 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

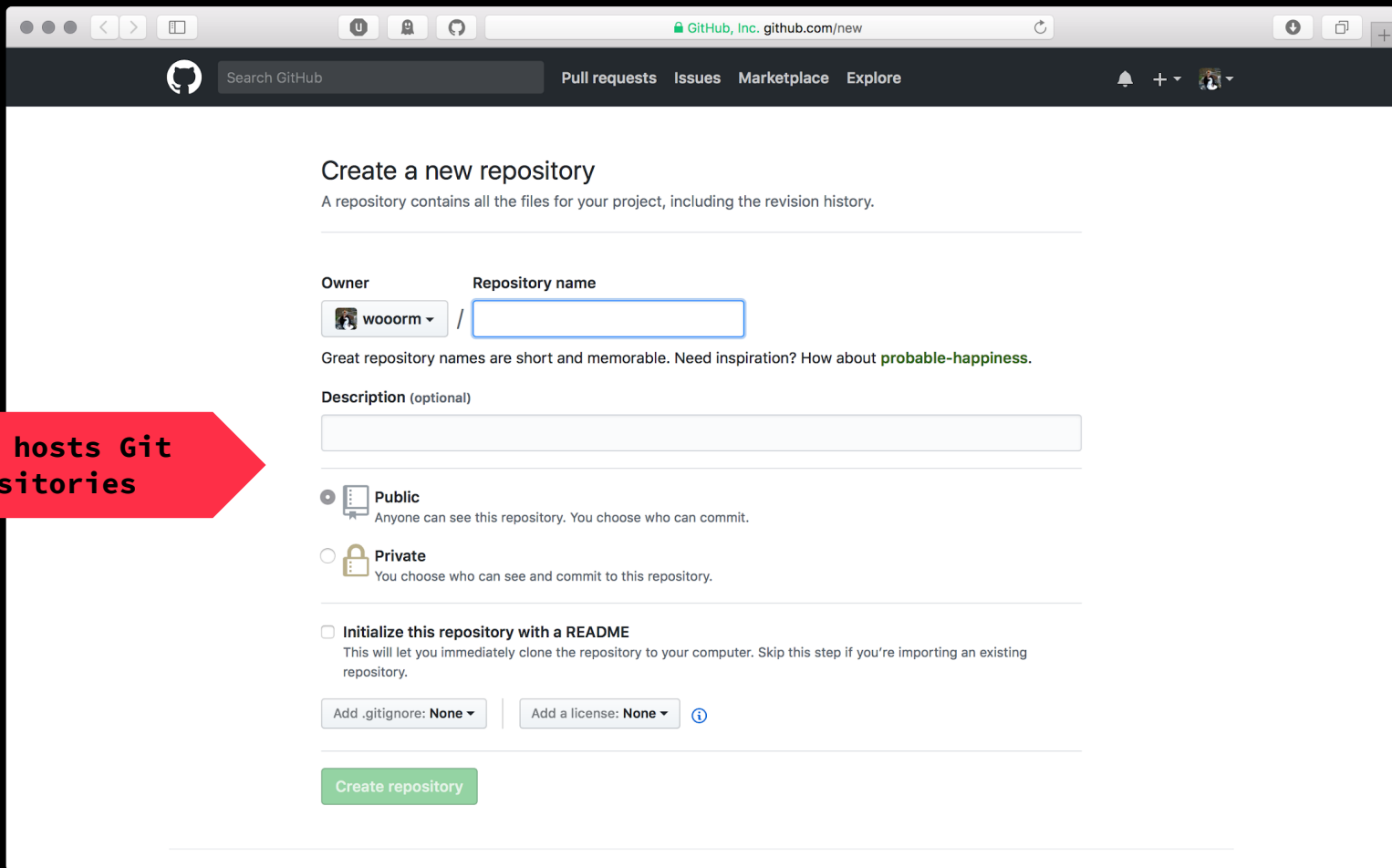
Latest commit b0d3bec 28 days ago

doc: fix commit guideline url	4 months ago
benchmark: provide default methods for assert	11 hours ago
deps: cherry-pick 9b21865822243 from V8 upstream	14 hours ago
assert: use Same-value equality in deepStrictEqual	7 hours ago
assert: use Same-value equality in deepStrictEqual	7 hours ago
module: coverity fixes for ESM C++	11 hours ago
assert: use Same-value equality in deepStrictEqual	7 hours ago
test: fix single test runner regression	4 days ago
tools: disallow trailing whitespace for markdown	10 months ago
test: remove disabled tests directory	2 months ago
module: Allow runMain to be ESM	9 days ago
src: limit .gitattributes eol to vcbuild.bat	3 years ago

deps doc lib src test tools .editorconfig .eslintignore .eslintrc.yaml .gitattributes

GitHub is a social platform around Git

**GitHub hosts Git  
repositories**



GitHub, Inc. github.com/new

Search GitHub Pull requests Issues Marketplace Explore

## Create a new repository

A repository contains all the files for your project, including the revision history.

Owner: woorm / Repository name:

Great repository names are short and memorable. Need inspiration? How about **probable-happiness**.

Description (optional):

☒ **Public**  
Anyone can see this repository. You choose who can commit.

☐ **Private**  
You choose who can see and commit to this repository.

☐ **Initialize this repository with a README**  
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** | Add a license: **None** ⓘ

**Create repository**

nodejs / node

Watch 3k Star 76.2k Fork 19.1k

Code Issues 943 Pull requests 229 Discussions Actions Projects 3 Security Insights

master 31 branches 646 tags

Go to file

Add file

Code



ruyadorno deps: upgrade npm to 7.4.3

✓ a35b32e 10 hours ago 32,759 commits

.github	meta: notify slack when someone force pushes	17 days ago
benchmark	test,benchmark: stop requiring URL and URLSearchParams	4 days ago
deps	deps: upgrade npm to 7.4.3	10 hours ago
doc	doc: fix maintaining ICU guide	2 days ago
lib	lib: refactor to use validateArray	2 days ago
src	src: use BaseObject::kInternalFieldCount in Blob	2 days ago

## About

Node.js JavaScript runtime 🦄



nodejs.org/

nodejs javascript windows  
macos linux node mit  
js runtime

Readme

View license

live demo GitHub repository

# assignment



Create a repository for blok-tech;

- Clone the repo to your local machine
- Create a readme.md file with some text
- Add, commit and push your readme.md template

# Assignments

## Octocat



# 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.

homework octocat, terminal & concept





exit;

see you in lab-2!