

>. TechLabs

Winner of the
Google.org Impact Challenge
Germany 2018



Or

"How to work
together without
killing each other!"

Git Workshop

- Introduction
- Introduction to Git
- Collaborative working with Git
- Collaborative working done right
- How to fix things with Git
- Wrap-Up

- We learn how **to use Git**, and not how Git works
 - We are teaching you to drive, not how the engine works
 - For your own projects
 - For working with each other in a project (Hello project Phase!)
 - Opinionated workflow based on our experience
- We will focus on command line
 - If you understand how it works on the command line you can easily switch to GUI

Git
Introduction

Git
Collaboration

Git
Collaboration
2

Git Fix



To save time during the workshop, we asked you to prepare beforehand:

- Git installation
- Set up git user (git --config global email/username)
- Have your GitHub username ready and be logged in into GitHub
- Run the test script

Have all of you completed the preparations for this workshop?



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Introduction

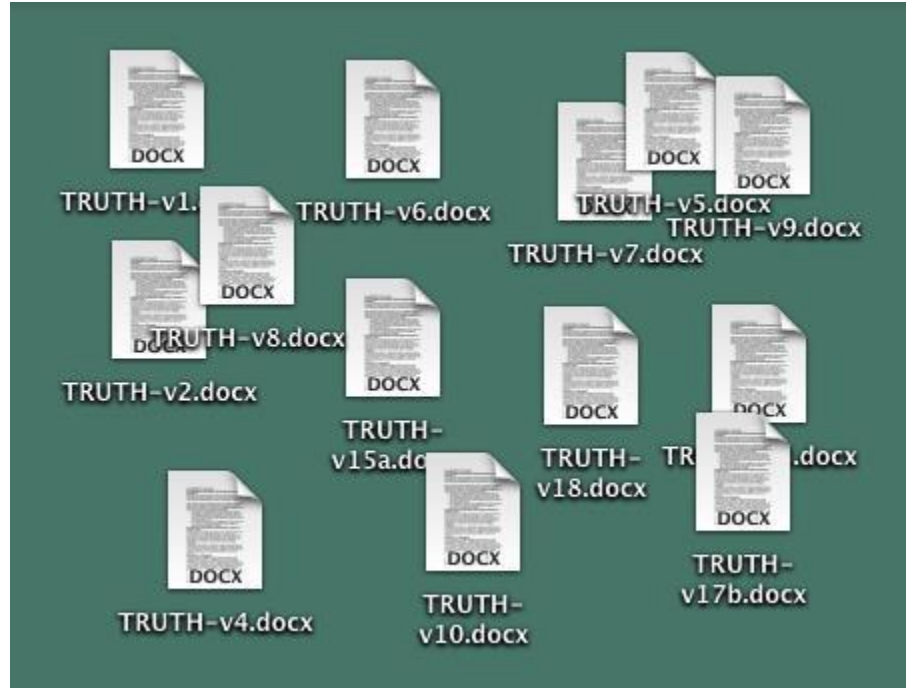
Introduction into Git

What is the problem?

- You work on a project and want to make some changes to your code/text file
- You make some changes, go to bed and realize the next day that the changes you made aren't as great as you thought
- You would like to revert back to the state before you changed the code yesterday

Introduction into Git

Why do I need Version Control



- Git is a tool to **create save points** and helps you **handle these save points**.
- You can **modify** your files/code and be sure **will not ruin your work** because you created save points along the way.
- Protects yourself from changes of others.
- Projects changes of others from yourself. (No angry teammates anymore!)



Introduction into Git

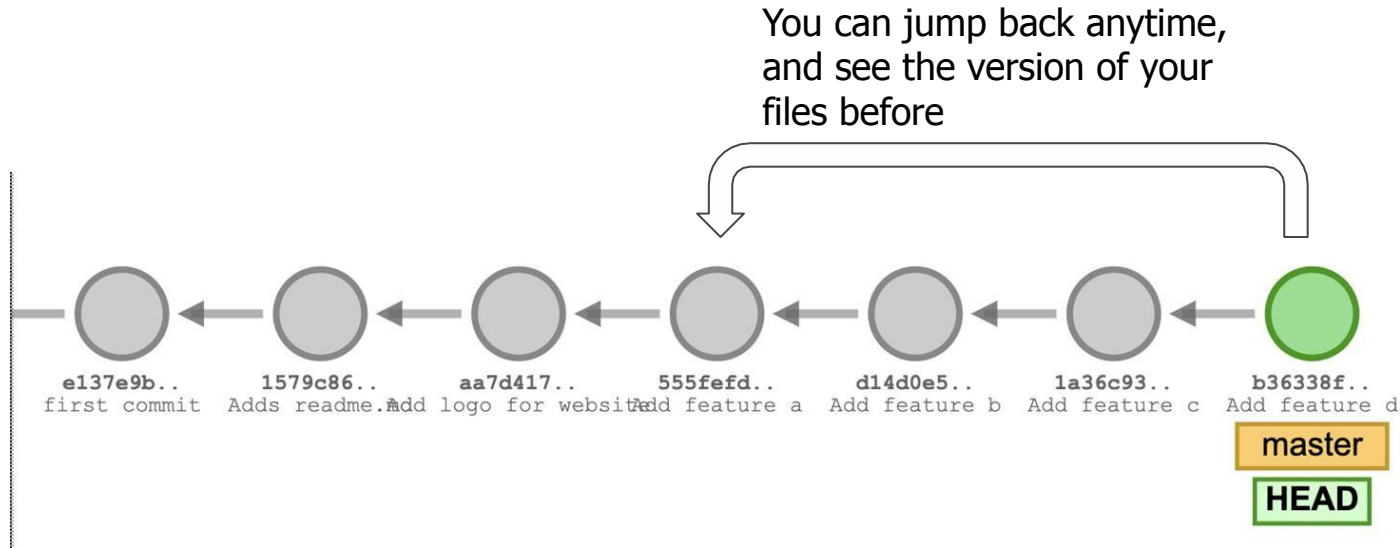
What is Git?

- Git is a distributed version control system
- A system that keeps records of your changes
 - **Allows you to revert any changes and go back to a previous state**
- Allows for collaborative development
- Allows you to know who made what changes, when and why



Introduction into Git

Version Control done Right!



Introduction into Git

But it takes time to learn GIT!

“But this is all so confusing, and scary. I will just use my old manual system”

This might work when you are alone, but:
We do know that the time you invest into learning Git now is less than the time you would spend doing version control across 6 people manually!



- Don't fear the terminal, it is your friend :)
- Most important commands for today
 - > pwd - prints the current path
 - > cd <path> - changes your current path to <path>
 - > touch <file> - creates a new file named <file> in your current path
 - * If you do not know nano or vim, just use your favourite text editor
- All the Git commands will be run in your current path!
- **READ!** Even if a command fails git often tells you what command you need to run!

- Git Repository (Repo)

- **A folder** where all changes should be tracked.

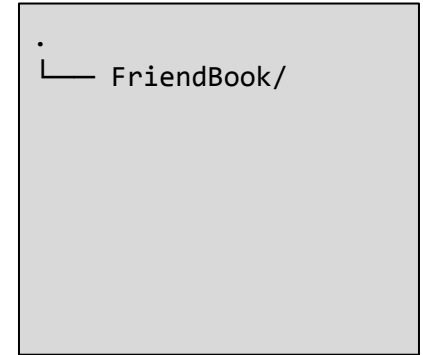
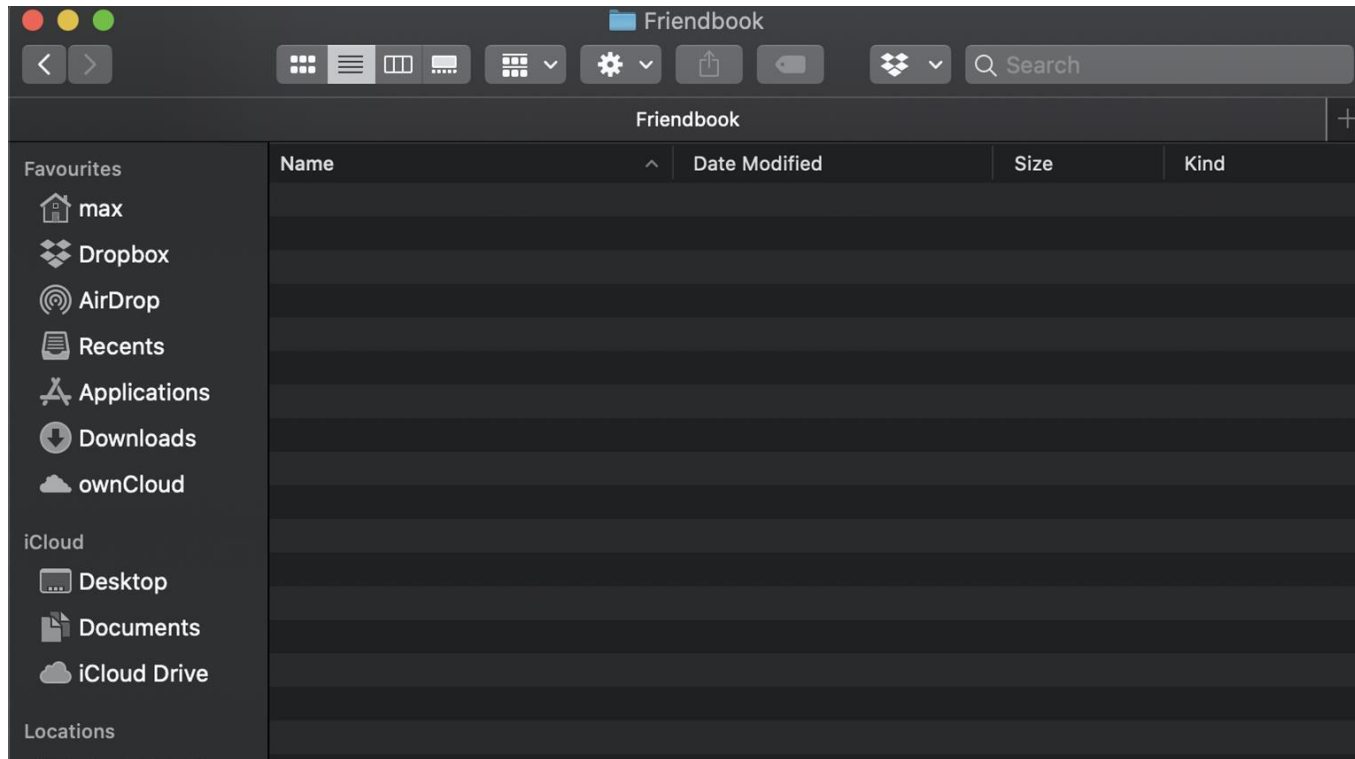
Your project's repository contains all of your project's files and stores each file's revision history.

- Git Commit

- A specific version(snapshot/save point) of the files in a repository.

Introduction into Git

Starting Point for examples



git init

- **Initiates** a repository in your current folder!

Transforms your current directory into a Git repository. It creates a “.git” folder, which stores all snapshots and other things git needs to work. This .git folder can be seen as database!

- Running *git init* in an existing repository does not do anything!

```
$pwd  
/Users/Max/projects/git_presentation
```

```
git init
```

```
.  
├── FriendBook/  
└── .git/
```

```
$git status  
On branch main  
nothing to commit, working  
tree clean
```


- Displays the state of repository in your current path
- What files did you change?
- Which files are not taken care of yet by .git etc.
- Status output does not show you any information regarding the committed project history. For this, you need to use git log.

As a beginner, run this each time before you want to run another command.

```
$pwd
/Users/Max/projects/FriendBook
$git status

On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

$ ...some changes and adds later.
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:

    new file:   sebi.md
```

- The git log command displays a record of the commits in a Git repository.
- By default, the git log command displays a commit hash, the commit message, and other commit metadata. You can filter the output of git log using various options.

```
$git log

commit 0bcb2508a305dbe701255b7427ba38887f7c702 (HEAD
-> main)
Author: Maximilian Schall
<maxscha@mail.de> Date: Thu Dec 3
20:55:53 2020 +0100

    Adds sebi.md

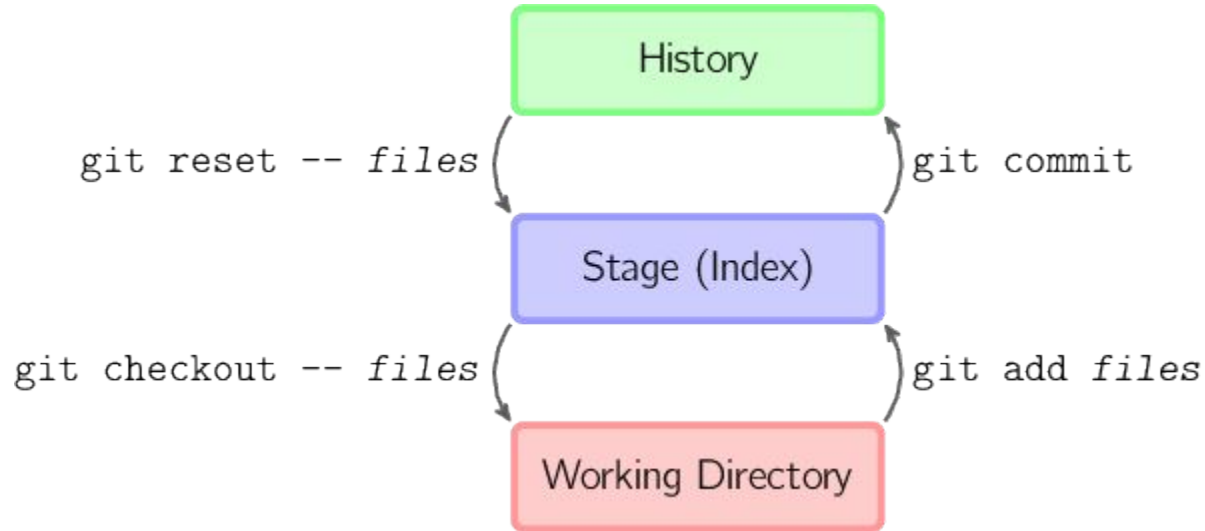
commit
3d73a54b1a046e392892b2d5cc97ff4219082355
Author: Maximilian Schall <maxscha@mail.de>
Date: Thu Dec 3 20:03:49 2020 +0100

    first commit
```

Leave with q

Introduction into Git

Git Staging Module

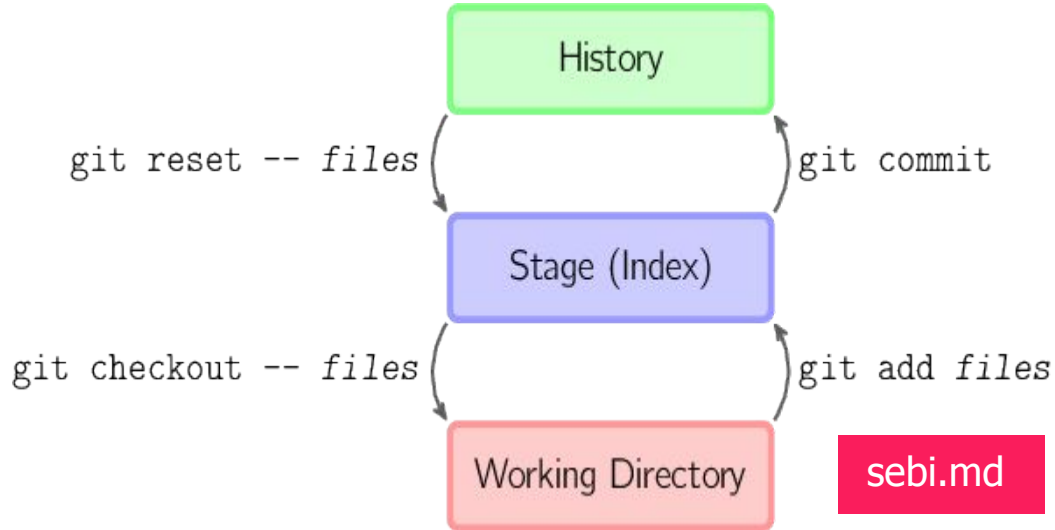


Introduction into Git

New File

Not a git command,
you can also just
create a file in your
text editor and save.

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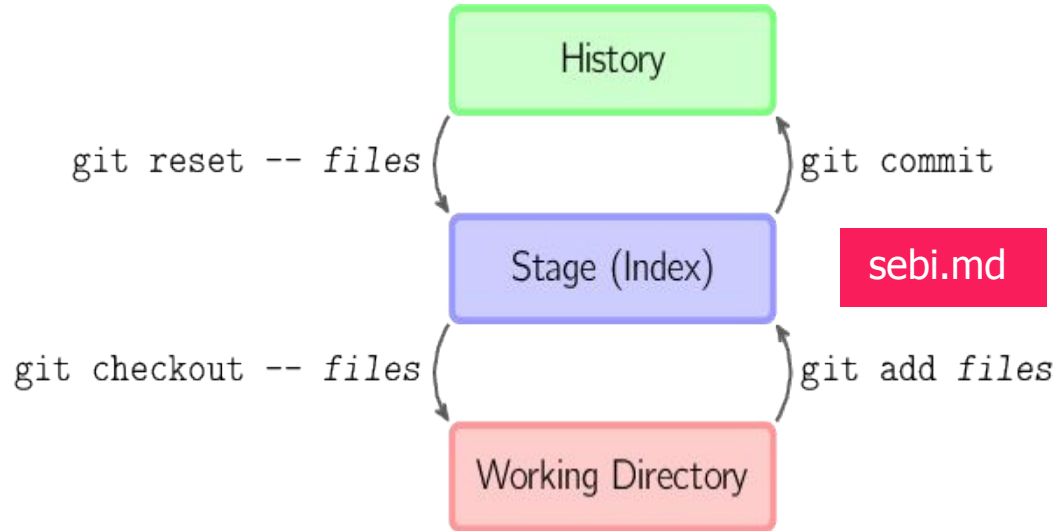
```
touch sebi.md
```

```
.
├── FriendBook
│   ├── .git
│   └── sebi.md
```

```
$git status
On branch master
Untracked files:
  sebi.md
nothing added to commit
but untracked files
present
```

Introduction into Git

Git add



```
git add sebi.md
```

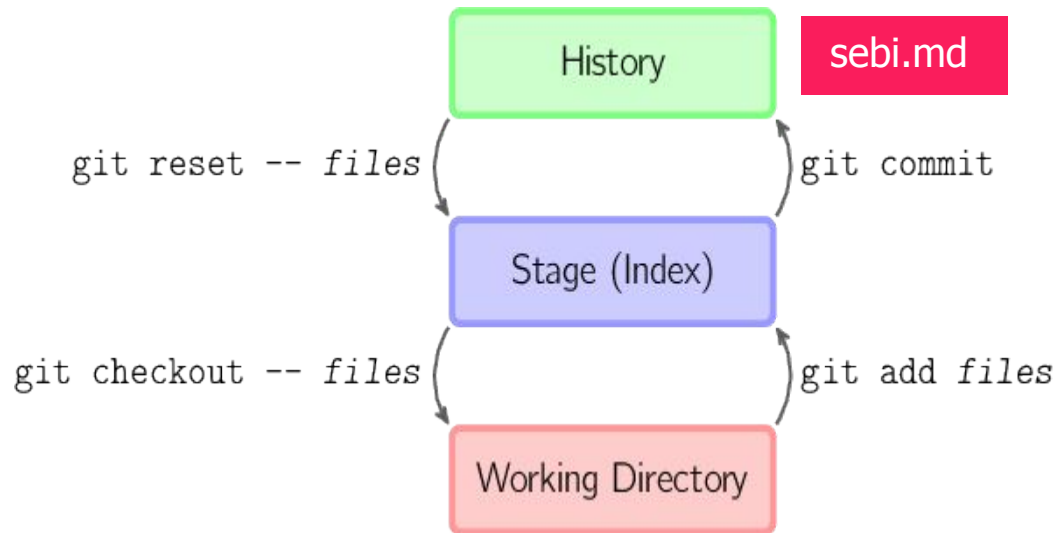
```
.
├── FriendBook
│   ├── .git
│   └── sebi.md
```

```
$git status
On branch main
Changes to be committed:
```

```
    new file:
  sebi.md
```

Introduction into Git

Git commit

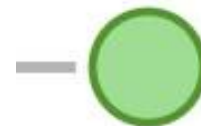


```
git commit
```

```
.
├── FriendBook
│   ├── .git
│   └── sebi.md
```

```
$git status
On branch main
nothing to commit,
working tree clean
```

Adds all files in staging to a new commit!



e137e9b..
first commit

Introduction into Git

Git commit, and VS Code Opens!

- Git requires you to describe every commit you create!
- This is called git commit message.
- Make sure to write some lines what you changed and why?
- In the preparation document we set Visual Studio Code as your default commit message text editor.

Introduction into Git

What if i want to change a file?

What if I want to change a file?

```
edit sebi.md
```

```
git add sebi.md
```

```
git commit
```



Introduction into Git

But I would like to see my first version of sebi.txt?

```
$git log
```

```
commit
0bcbcb2508a305dbe701255b7427ba38887f7c702
(HEAD -> main)
Author: Maximilian Schall
<maxscha@mail.de> Date: Thu Dec 3
20:55:53 2020 +0100
    Adds sebi.md
```

```
commit 3d73a54b1a046e392892b2d5cc97ff4219082355
```

```
Author: Maximilian Schall <maxscha@mail.de>
Date: Thu Dec 3 20:03:49 2020 +0100
```

```
first commit
```

```
$git checkout 3d73a54b1a046e392892b2d5cc97ff4219082355
```

.... Have a look at the first version of sebi.md

```
$git checkout main
```

< Name of a commit

Introduction into Git

What happens if I run a git command outside?

```
$pwd
/Users/Max/projects
$git add -A
fatal: not a git repository
(or any of the
parent
directories): .git
```

Well except for git init

Everyone in the team needs to do these tasks, but communicate with each other about your questions and learnings!

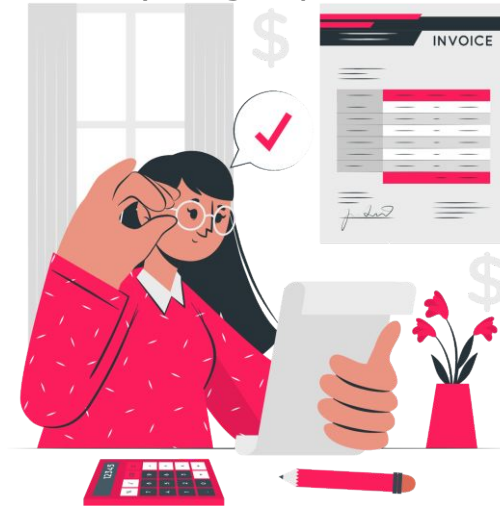
1. Create a new folder and open the command line/terminal in there.
2. Initialize the git repository.
3. Create a file with `**yourlastname.txt**` in the folder and write 1-2 sentences about you in that file (You can create the file with vs-code, any text editor, etc.) & run `git status`
4. Add these files to git staging-area & run `git status`.
5. Commit the staged file & run `git status`.
6. Check the git logs.
7. Add two more sentences to your file.
8. Add and commit again.
9. Check the logs.
10. Jump back in time, and look at an old commit.
11. Switch back to current version

15 min

Questions?



Look at the cheat sheet and ask
your group members



- Create a new folder and open the command line/terminal in there.
- Initialize the git repository.
 - `git init`
- Create a file with `**yourlastname.txt**` in the folder and write 1-2 sentences about you in that file (You can create the file with vs-code, any text editor, etc.) & run `git status`
 - `touch yourlastname.txt`
 - `edit yourlastname.txt`
 - `git status`
- Add these files to git staging & run `git status`.
 - `git add yourlastname.txt`
 - `git status`
- Commit the staged file & run `git status`.
 - `git commit -m "yourlastname.txt"`
 - `git status`
- Check the logs.
 - `git log`
- Add two more sentences to your file.
- Add and commit again.
- Check the logs.
- Jump back in time, and look, add an old commit.
 - `git checkout <commit_hash>`
- Switch back to main
 - `git checkout main` (older versions: `git checkout master`)

How was it?

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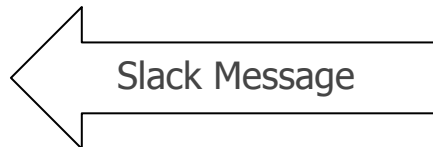
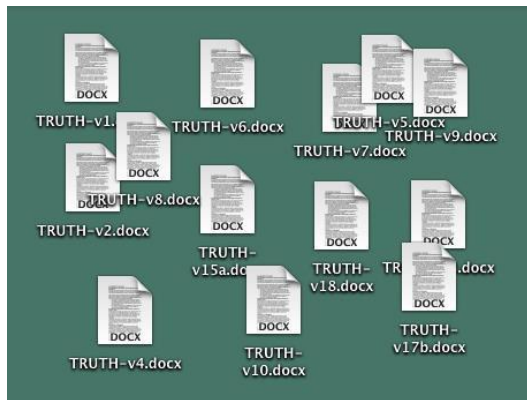
Git Collaboration

- Well know you understood how do to (basic) versioning in your local repository!
- Next we will learn how to **work together on one project**
- Why is Git great for working together?
 - Everyone can work on it at the “same time”
 - Awesome conflict resolution (e.g. P1 and P2 works on F1 at the same time)

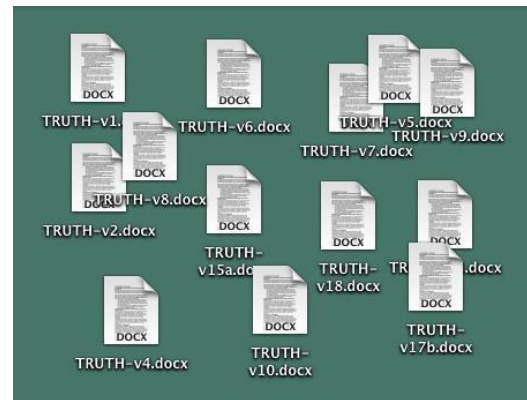
Git Collaboration

How could you do it?

“ Can you send me your changes so I can add them to my local version? “

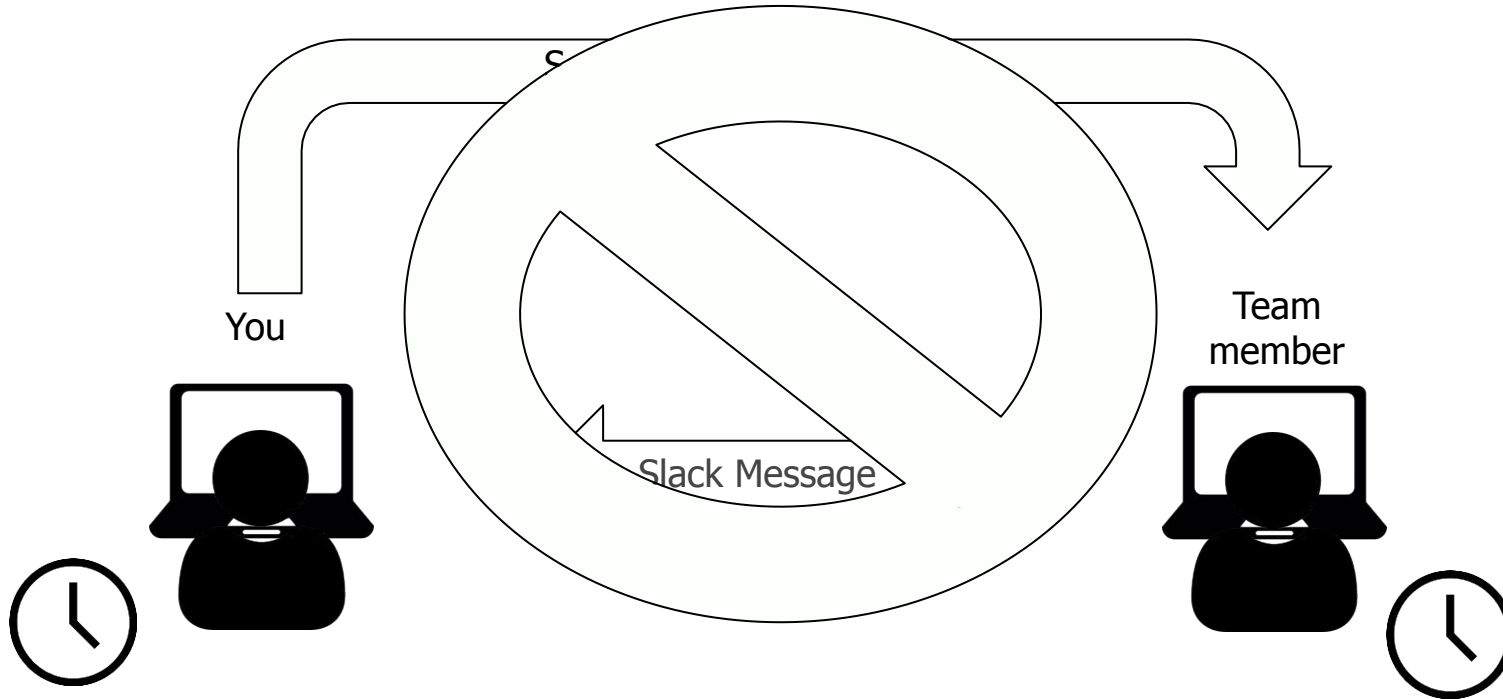


“Sure”



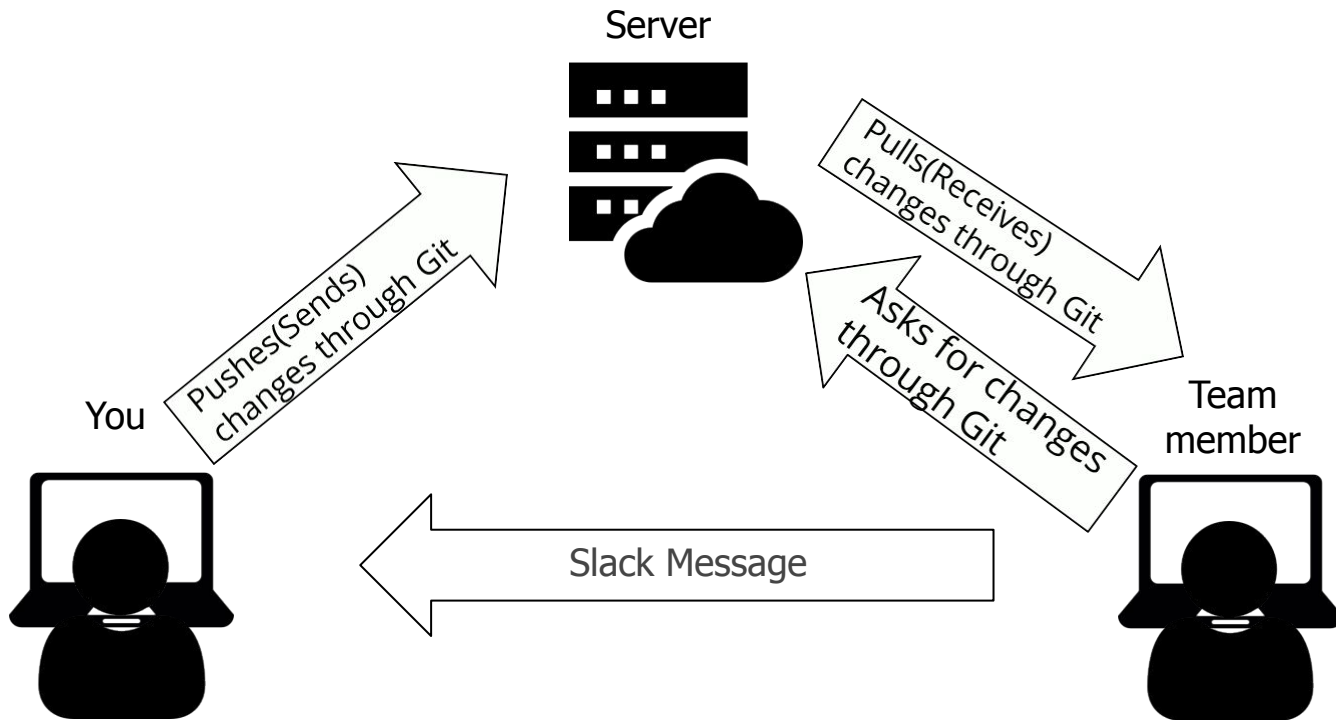
Git Collaboration

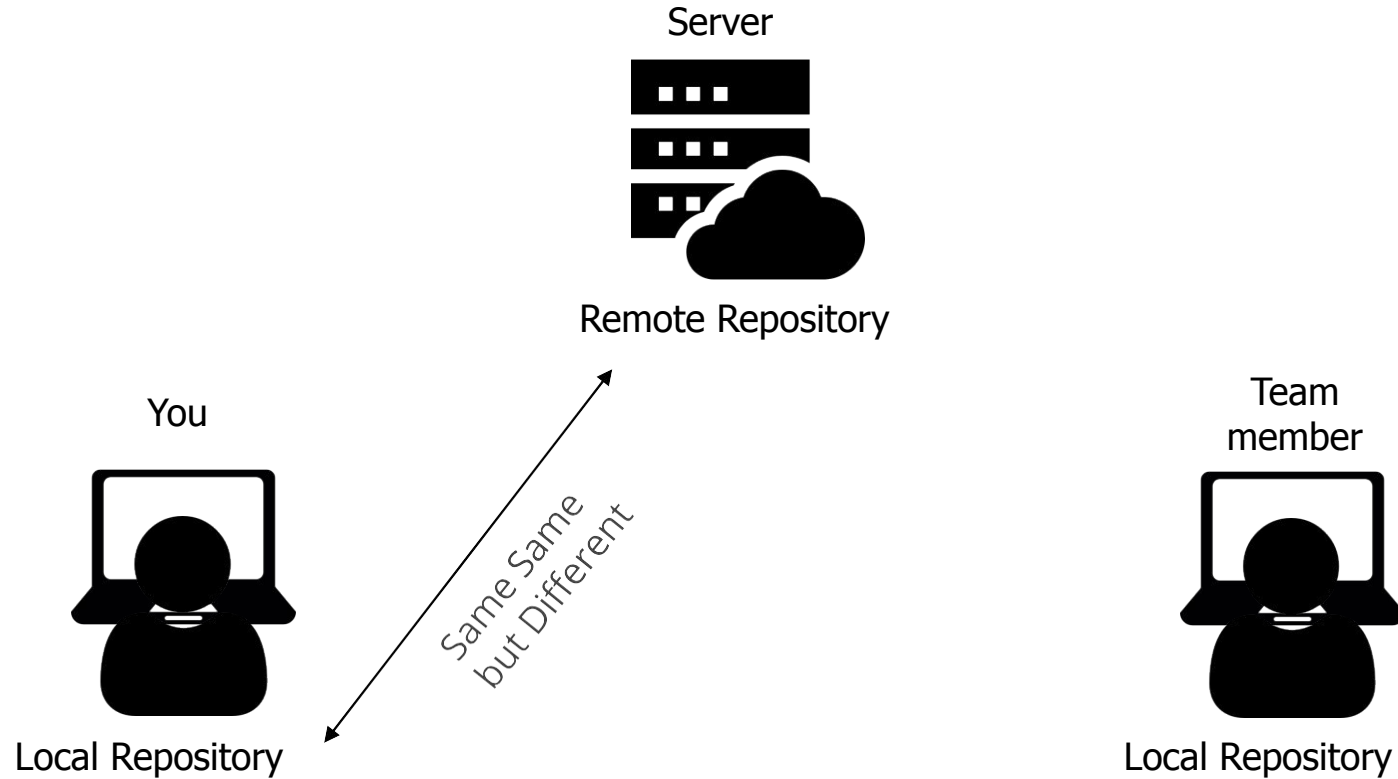
How to properly do it?



Git Collaboration

How to properly do it?





Git Collaboration

Where to host the Remote Repository

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Server



Remote Repository

e.g.



GitHub

OR



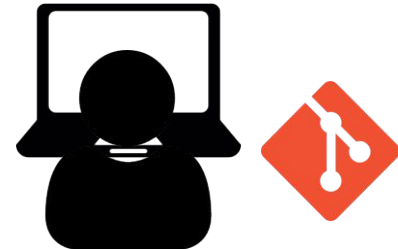
GitLab

You



Local Repository

Team member



Local Repository



- GitHub is a cloud service, to host & share your repositories online
- You can see it as a "Dropbox for repositories"
- **Git != Github**
 - They have both different functionalities and are for different tasks
 - Git: Working **LOCALLY** on your machine & communicating with Github
 - GitHub: Hosting your repository, and can be seen more as a project management tool
- It provides access control and several collaboration features such as bug tracking, feature requests, task management, continuous integration and wikis for every project.

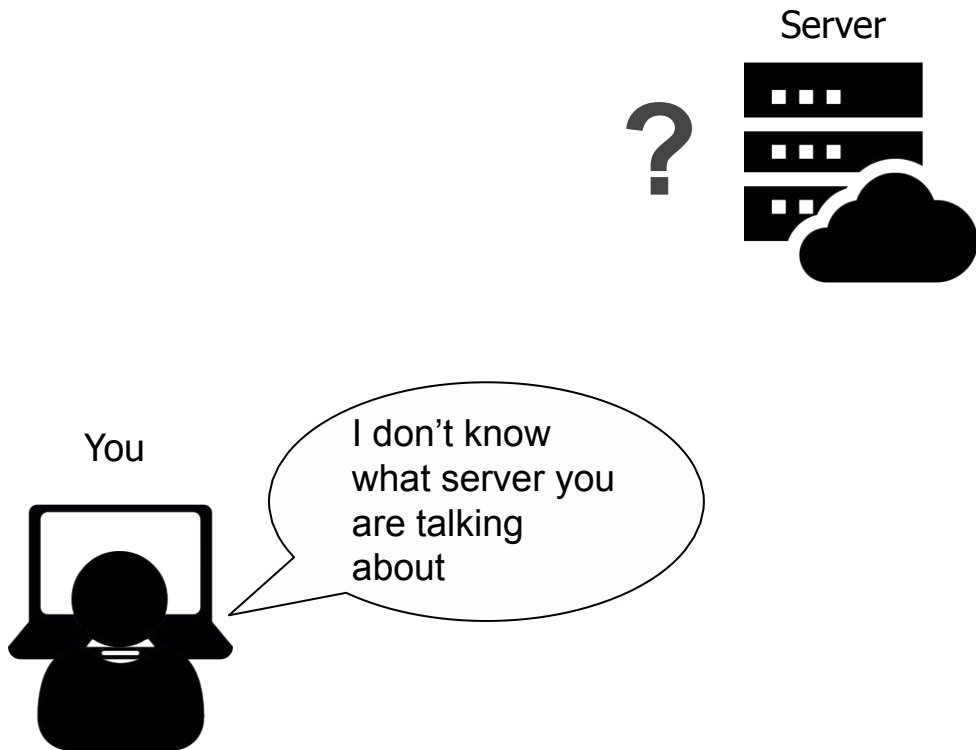
Git Collaboration

Github New Repository

The screenshot shows the GitHub web interface. At the top is a dark navigation bar with the GitHub logo, a search bar, and links for Pull requests, Issues, Marketplace, and Explore. Below this, the 'TechLabs-Berlin' organization page is visible. On the left sidebar, under the 'Repositories' section, a green 'New' button with a computer icon is circled in red. Below the 'New' button is a search bar labeled 'Find a repository...'. A list of repositories is shown, including 'git-configuration-test', 'radar', 'trm-frontend-production', 'trm-frontend-staging', 'trm', 'Workadventure-Map', 'webdev-central', 'mailchimp-lambda', 'public-transport-safety-app', 'berlinrents.live', and 'sokr'. On the right side of the page, a list of recent activity is shown, including a push by 'Grunener' and several additions by 'Maxscha'.

Git Collaboration

git remote add



Git Collaboration

git remote add

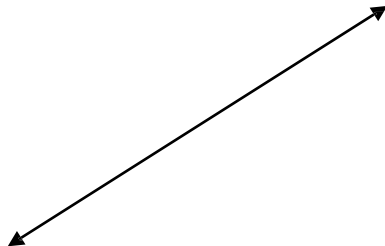
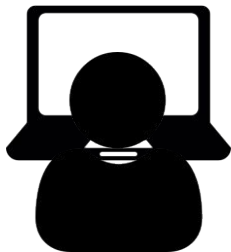
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```
git remote add origin  
https://github.com/user/frien  
d book.git
```

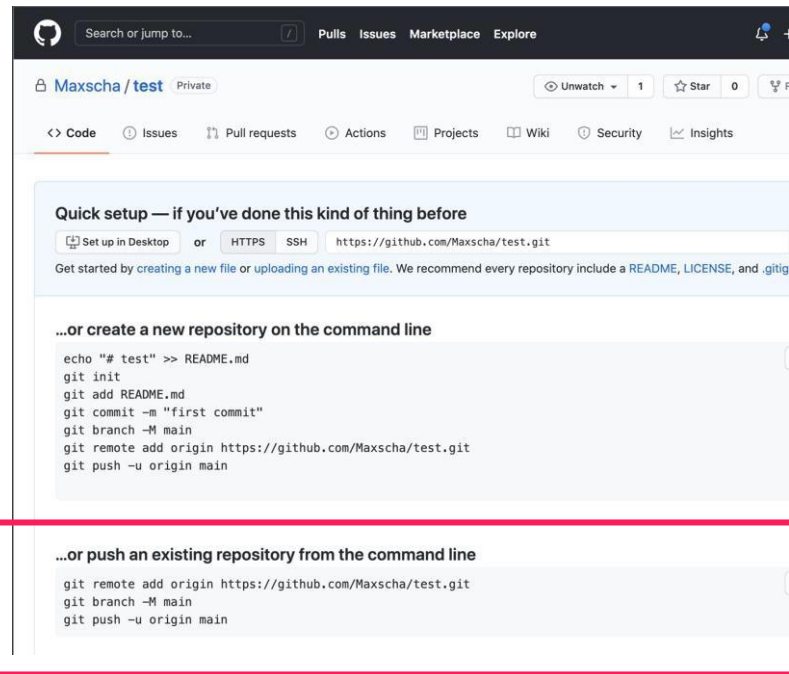
Server



You



Alternative: Just copy the code from GitHub



Git Collaboration

git clone

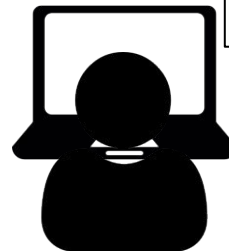
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```
git clone  
https://github.com/user/friend-book.git
```

Server

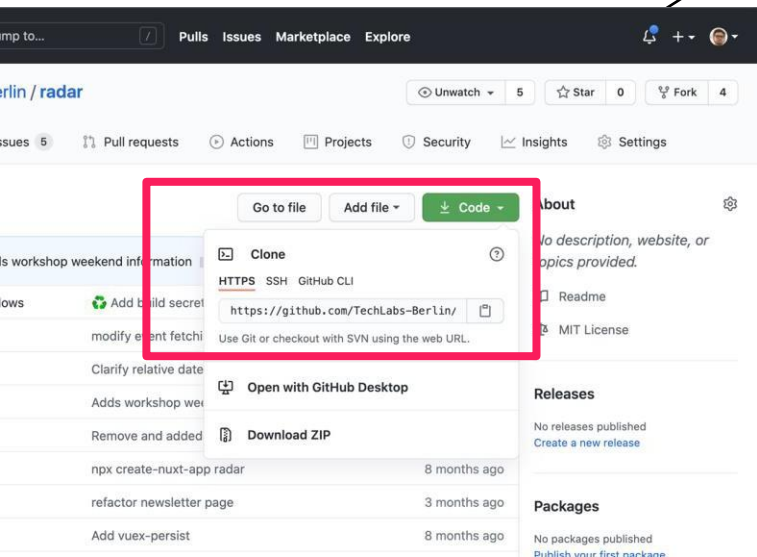


Team member



Now I also want to work on your code!

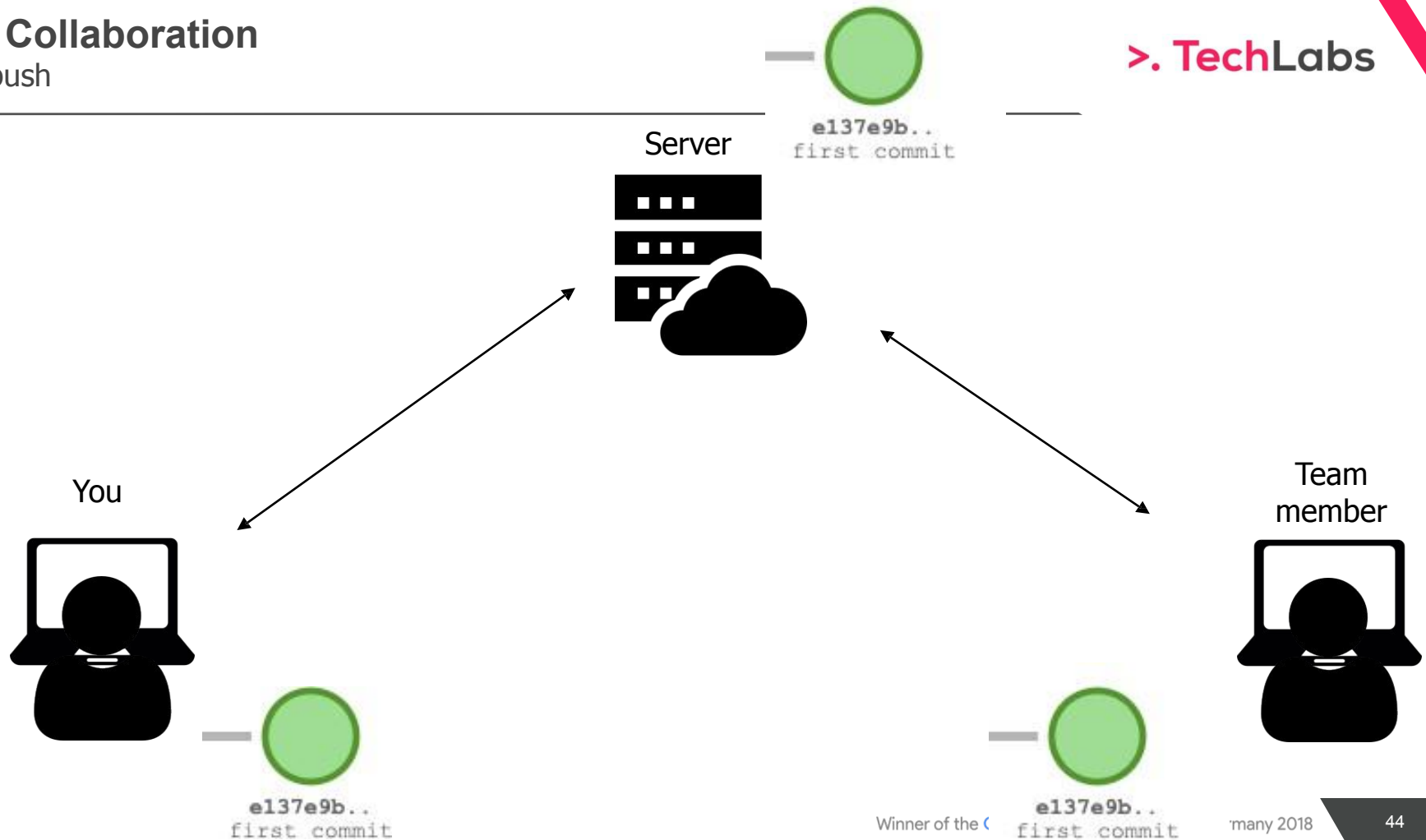
Alternative: Just copy the code from GitHub



Git Collaboration

Git push

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Git Collaboration

Git push

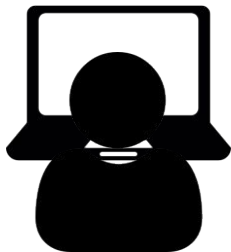
> . TechLabs

Server

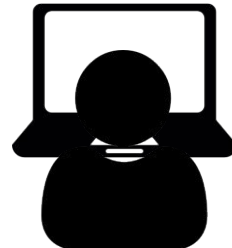


```
touch sebi.md  
git add sebi.md  
git commit -m "Add sebi.md"
```

You



Team member



Winner of the <

many 2018

Git Collaboration

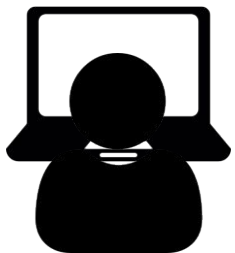
Git push

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Server



You



Team member



Winner of the <

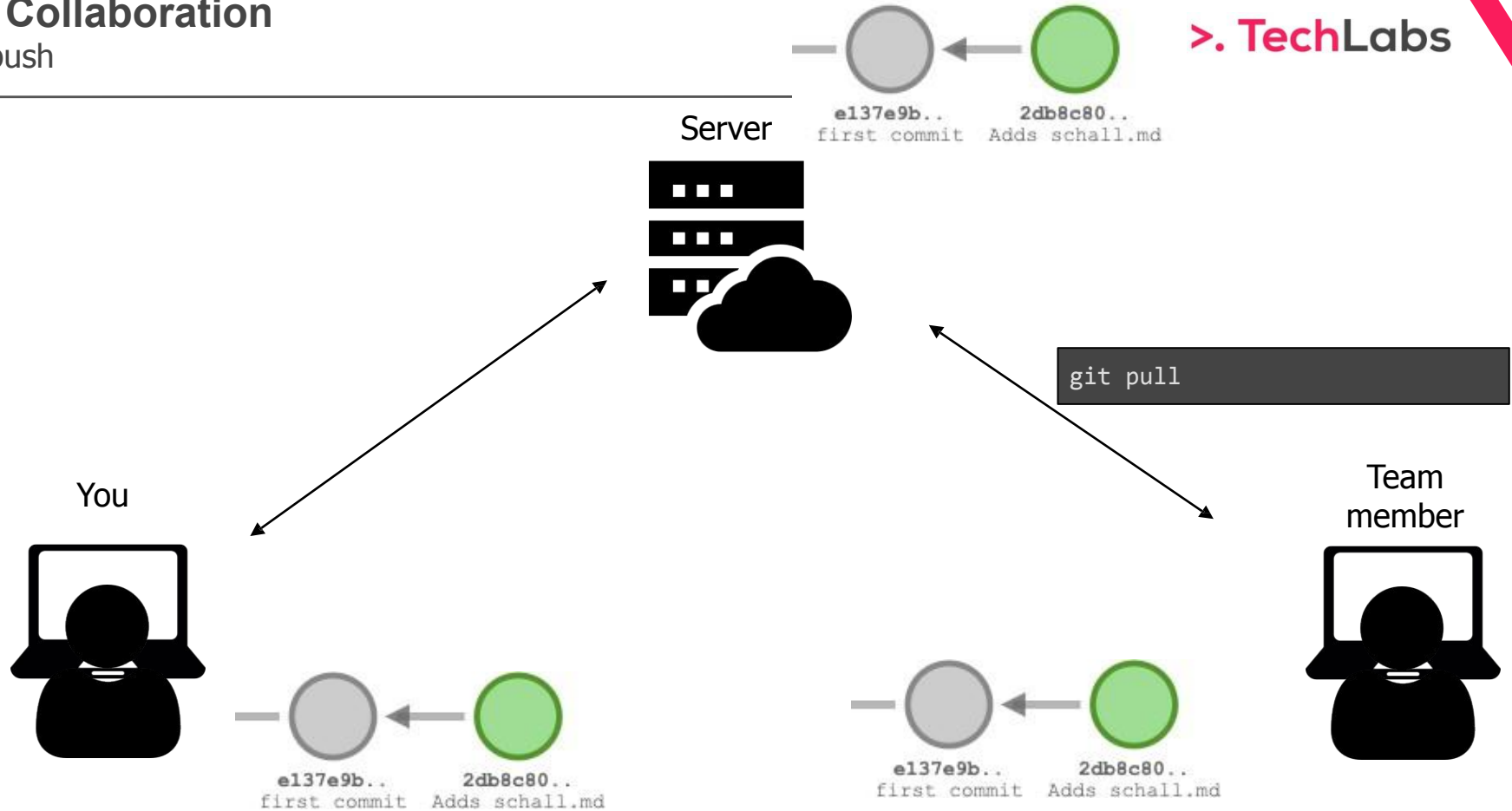
many 2018

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Git Collaboration

Git push

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Everyone in the team needs to do these tasks, but communicate with each other about your questions and learnings!

1. Select one person in your group...
 - a. ... to create a GitHub repo and to upload (push) his existing repo there.
 - b. ... to add the others as a collaborator in that repository (Invitation comes via e-mail, so check your mail)
2. Everyone clone that repo (make sure not to clone it within your existing repository)
 - a. Check before if you are in a repository.
 - b. Use git status to check
3. Copy your lastname.txt from your old repository to the other member's repository, git add, git commit, git push (You can do the coping in the file explorer)
4. Change something in the text file of your group, add, commit, & push.
5. Play around with the repository, add and commit some things, pull and coordinate with your team members.

20 min

THIS IS GIT. IT TRACKS COLLABORATIVE WORK
ON PROJECTS THROUGH A BEAUTIFUL
DISTRIBUTED GRAPH THEORY TREE MODEL.

COOL. HOW DO WE USE IT?

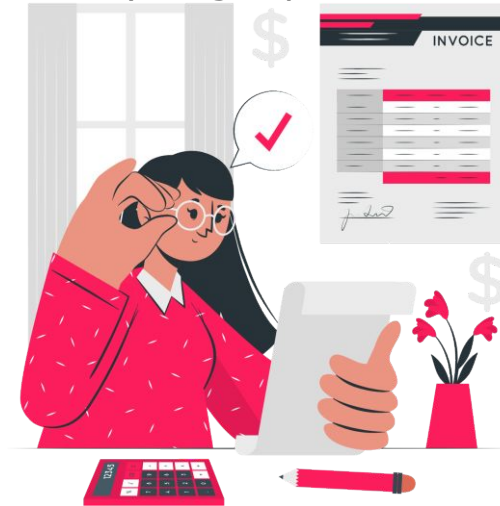
NO IDEA. JUST MEMORIZE THESE SHELL
COMMANDS AND TYPE THEM TO SYNC UP.
IF YOU GET ERRORS, SAVE YOUR WORK
ELSEWHERE, DELETE THE PROJECT,
AND DOWNLOAD A FRESH COPY.



Questions?



Look at the cheat sheet and ask
your group members



1. Select one person in your breakout room...
 - a. ... to create a GitHub repo and to upload his existing repo there.
 - b. ... to add the others as a collaborator in that repository (Invitation comes via e-mail, so check your mail)
2. Everyone clone that repo (make sure not to clone it within your existing repository)
 - a. Check before if you are in a repository.
 - i. `pwd`
 - b. Use git status to check
 - i. `git status`
3. Copy your lastname.txt from your old repository to the other member's repository, git add, git commit, git push(You can do the coping in the file explorer)
 - a. `git add <filename>; git commit -m "message"; git push`
4. Change something in the text file of your group, add, commit, & push.
5. Play around with the repository, change push & pull and coordinate with your team members until time is over.

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Git Collaboration 2

Git Collaboration 2

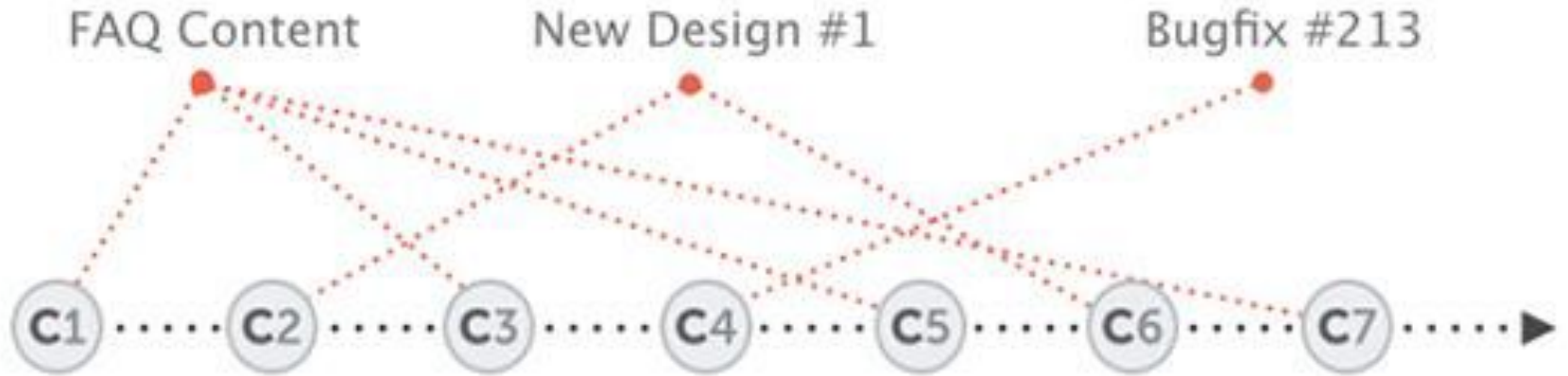
Or how to really work together without problems

- You want to work in different contexts until you are done
- Creating contexts is easy
- Combining these contexts is hard, but git has helpful ways with this
 - (It is probably the most complex topic for a git beginner, but once you put your head around it will be kinda easy)

Git Collaboration 2

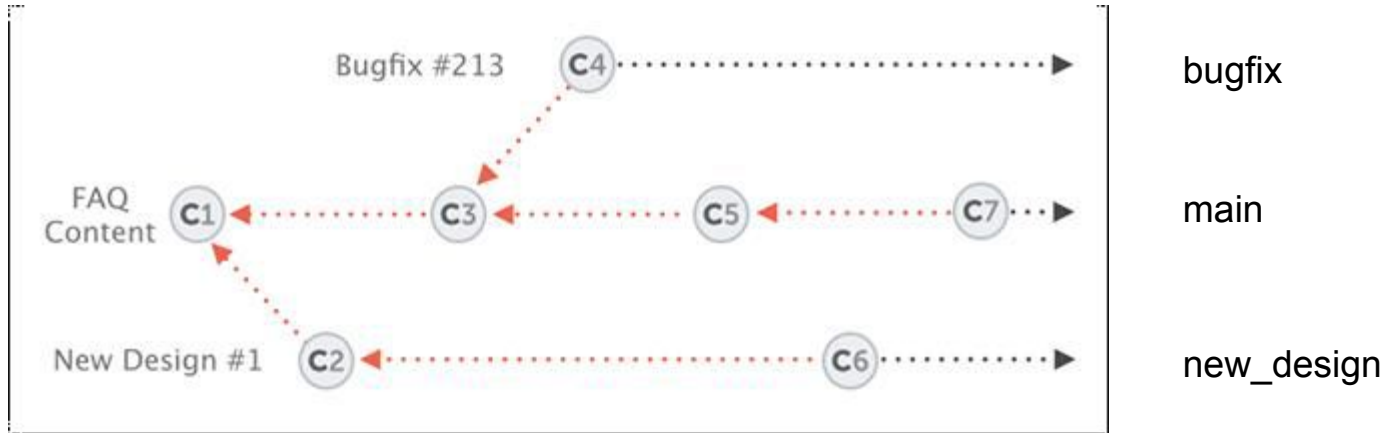
Working on contexts!

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Git Collaboration 2

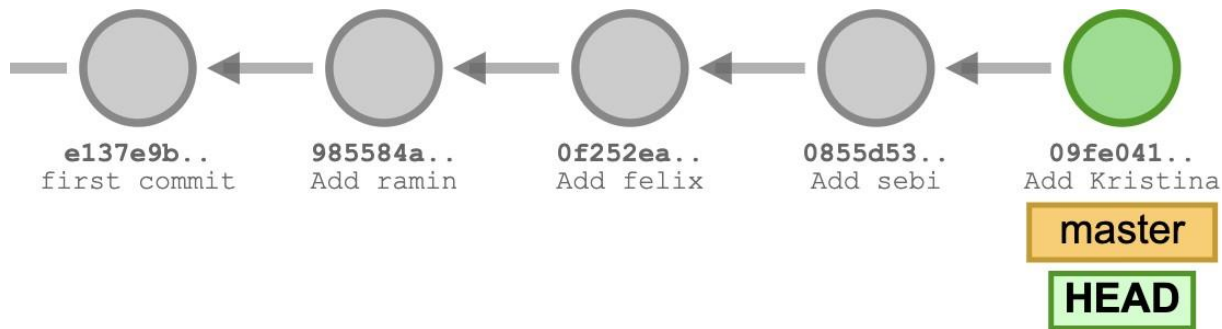
Branches



- **Master** was the common naming for the default branch until quite recently
- After the brutal death of George Floyd and the Black Lives Matter protests, tech companies wanted to show their support for the black community by abandoning non-inclusive terms such as master, slave, blacklist, and whitelist
- Your setup should already include that per default also local repositories have their initial branch called **main**
- Just keep an eye if you work with older repositories.
 - > `git config --global init.defaultBranch <Name>` to set the the default name for initial branches; `git branch -m <Name>` to rename branch you are currently in)

Git Collaboration 2

Examples with head & checkout



```
.
├── FriendBook/
│   ├── .git
│   ├── sebi.md
│   ├── ramin.md
│   ├── felix.md
│   └── kristina.md
```


Git Collaboration 2

Examples with head & checkout

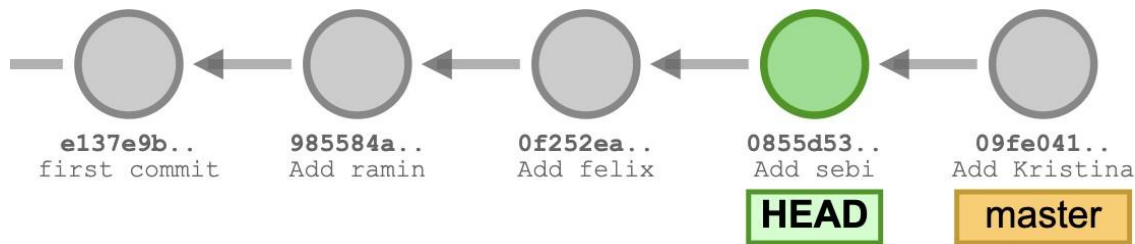


```
git checkout 0f252ea
```

```
.
├── FriendBook/
│   ├── .git
│   ├── ramin.md
│   └── felix.md
```

Git Collaboration 2

Examples with head & checkout

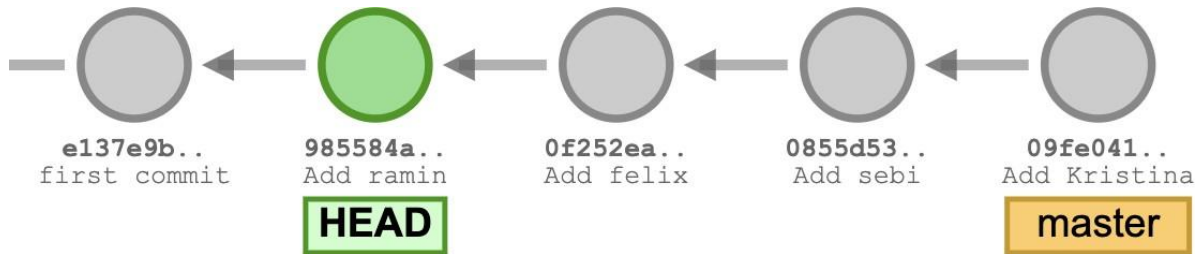


```
git checkout 0855d53
```

```
.
├── FriendBook/
│   ├── .git
│   ├── sebi.md
│   ├── ramin.md
│   └── felix.md
```

Git Collaboration 2

Examples with head & checkout

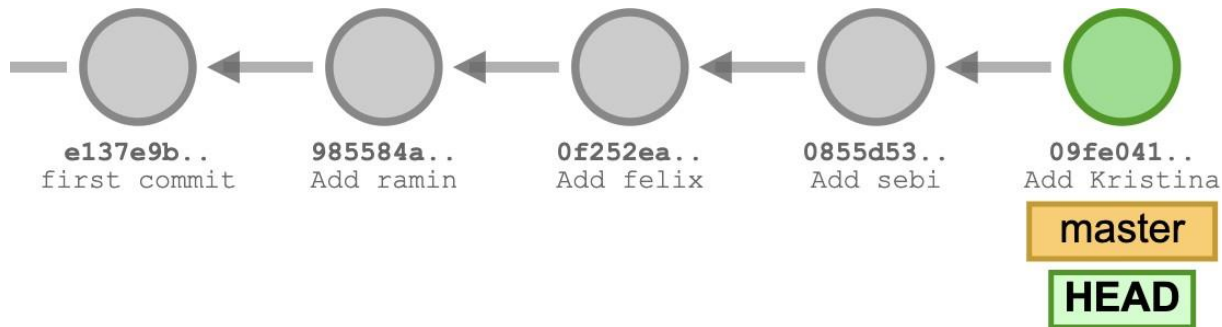


```
git checkout 985584a
```

```
.
├── FriendBook/
│   ├── .git
│   └── ramin.md
```

Git Collaboration 2

Examples with head & checkout



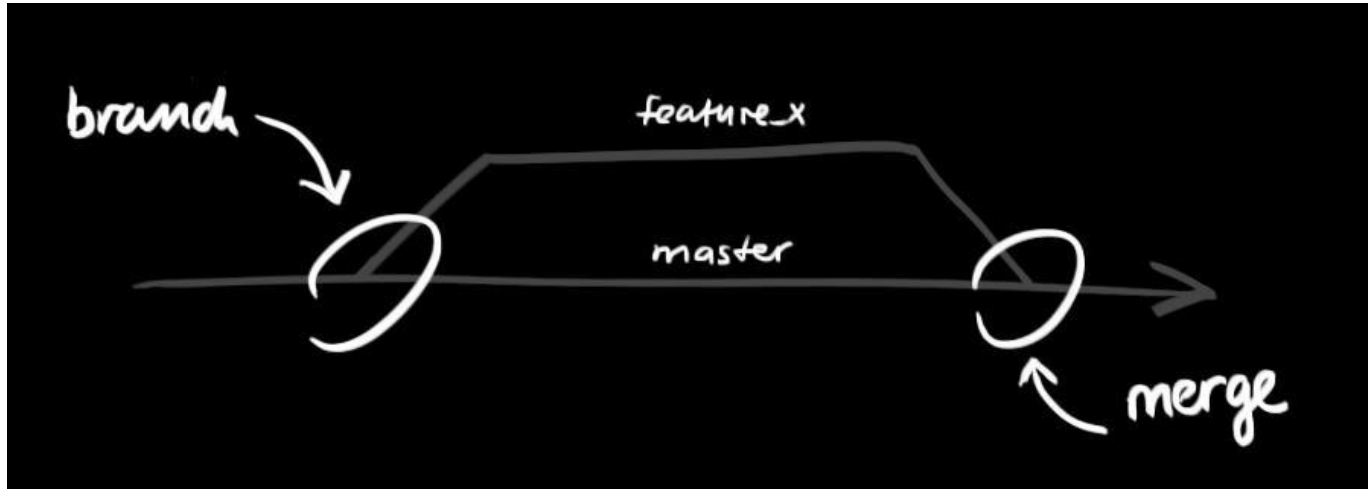
```
git checkout main
```

```
.
├── FriendBook/
│   ├── .git
│   ├── sebi.md
│   ├── ramin.md
│   ├── felix.md
│   └── kristina.md
```

Git Collaboration 2

Branches!

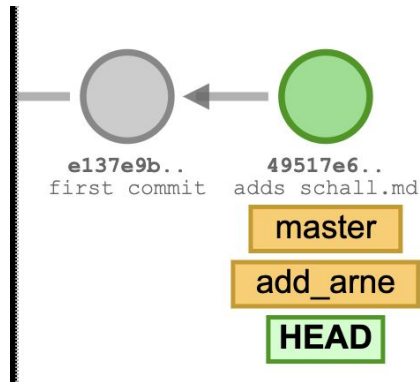
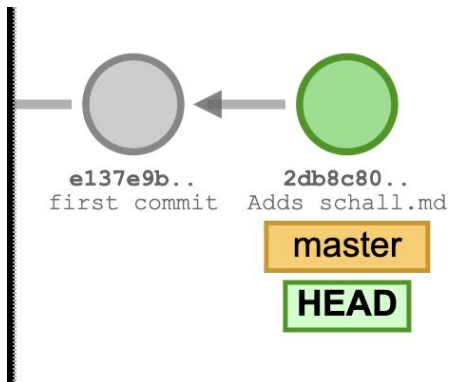
A branch is a possibility to develop feature_x in a save context, without interfering with other work. It allows easy separation, comparison and roll_back.



Git Collaboration 2

How to create branches?

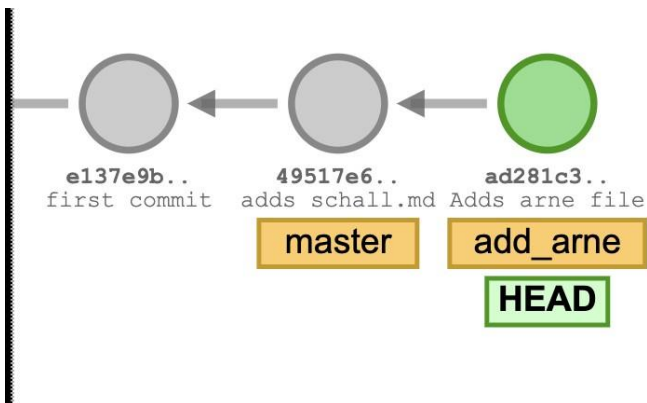
```
git checkout -b add_arne
```



Git Collaboration 2

How to work in branches

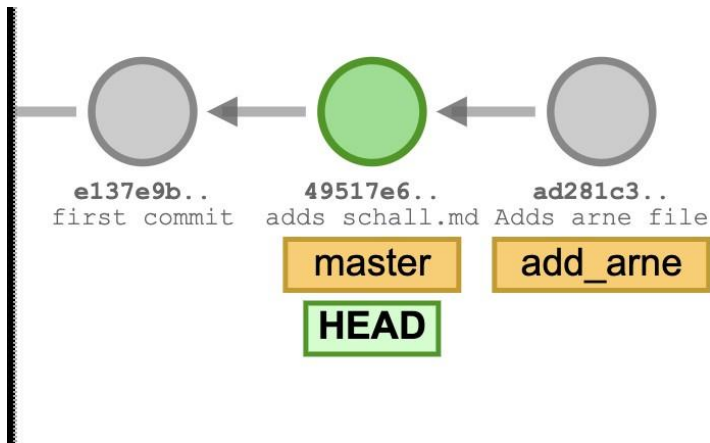
```
touch arne.md  
git add  
arne.md  
git commit -m "adds arne file"
```



Git Collaboration 2

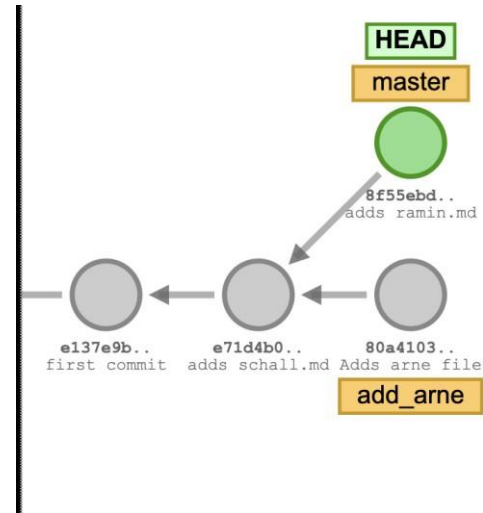
How to switch between branches

```
git checkout main
```



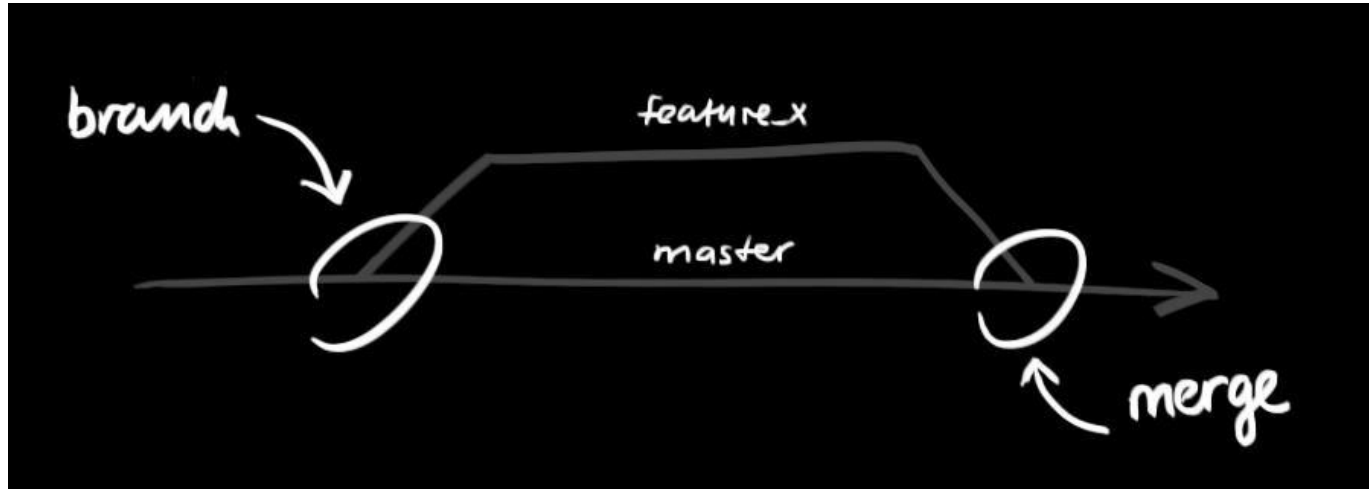
Git Collaboration 2

Add commit to main



Git Collaboration 2

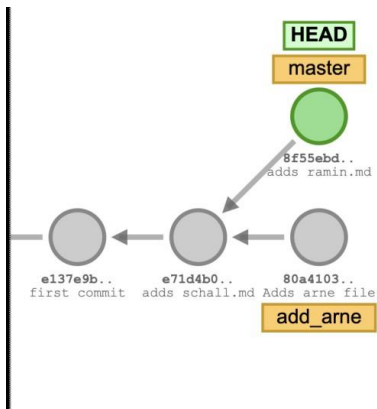
What are branches?



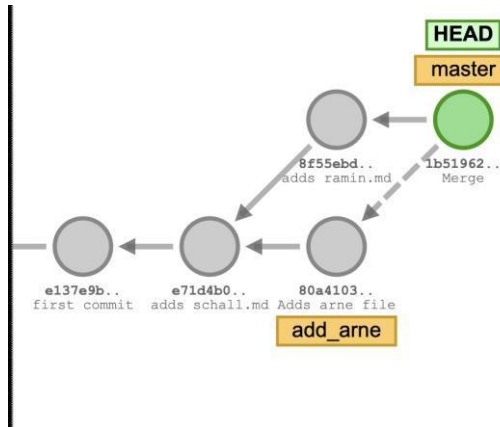
Git Collaboration 2

And how to combine branches again?

Explain git merge



```
git merge add_arne
```

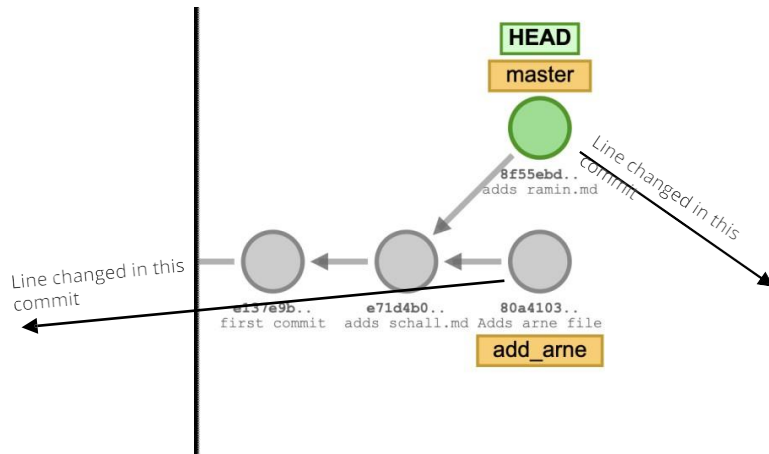


- When to merge a branch into main is a hard question!
 - Too early and you will need to recreate the context to often
 - Too late and the contextes moved too far away from each other
- Merge when:
 - A feature/bugfix is done
 - If the feature takes longer than a week to implement, find a subset of that feature to implement within a week and merge that

- When do **merge conflicts** happen?
 - When the same files and lines get edited in two different branches and these branches are merged together

sebi.txt (in branche add_arne)

Name: Arne
Bday: 34.12.94
Favorite Food: Spätzle



sebi.txt (in branche main)

Name: Arne
Bday: 34.12.94
Favorite Food: Maultaschen

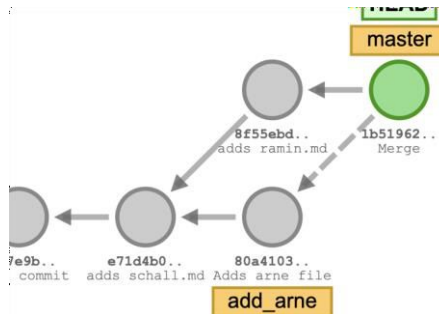
Git Collaboration 2

What is the correct line?

Assume the same line (number) of the same document in different branches.

Now there is a merge... Which line is the right one?

Favorite Food: Spätzle?



Favorite Food: Maultaschen?

Git Collaboration 2

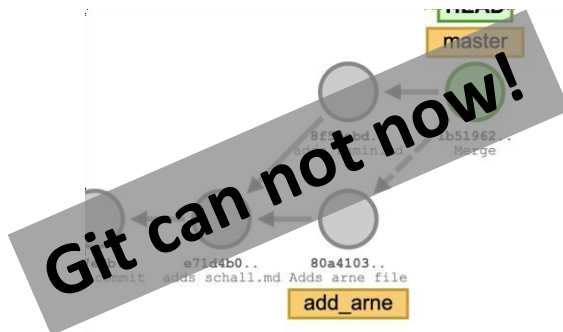
What is the correct line?

Assume the same line (number) of the same document in different branches.

Now there is a merge... Which line is the right one?

Favorite Food: Spätzle?

Favorite Food: Maultaschen?



sebi.txt

Name: Arne

Bday: 14.12.94

```
<<<<<<<<< HEAD
Favorite Food: Spätzle
=====
Favorite Food: Maultaschen
>>>>>>>> add_arne
```

Your decision!

1. Fix it in your text editor, by choosing the line(s) and removing all the other things
2. Add fixed file
3. commit

```
$git status
On branch main
You have unmerged paths.
  (fix conflicts and run "git commit")

Unmerged paths:
  (use "git add <file>..." to mark resolution)

        both modified:   contact.html

no changes added to commit (use "git
add" and/or "git commit -a")
```


Git Collaboration 2

Merging is hard

- Probably the most difficult topic today, try to create merge conflicts in your own projects to solve them.
- If you are merging conflicts from branches with other people work together with them
- Your code is not more important than code from others!

Git Collaboration 2

And how to do this remote?

```
git push
```

```
git pull
```

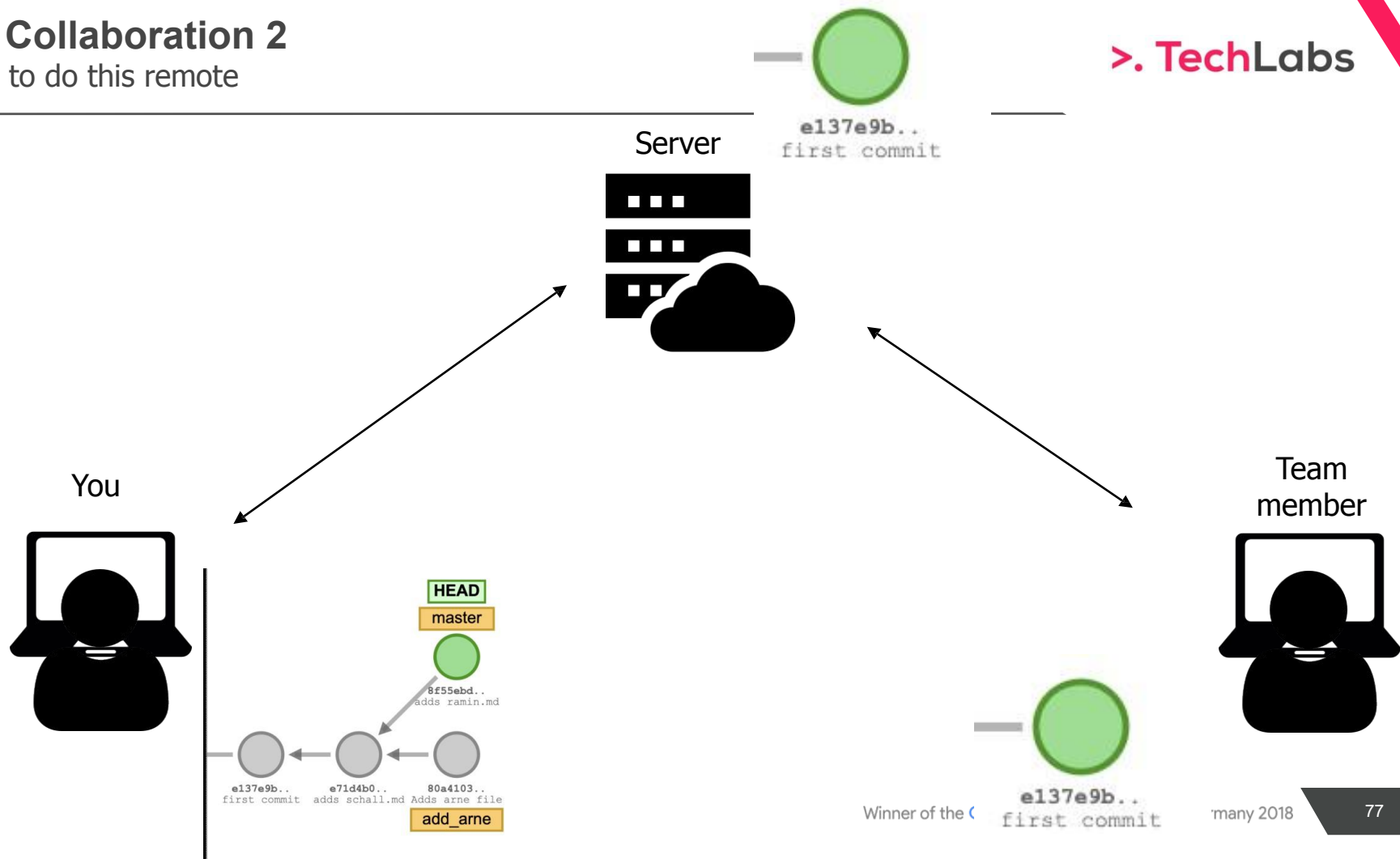
```
git checkout --track  
origin/<branch-name>
```

**READ THE
OUTPUT!**

Git Collaboration 2

How to do this remote

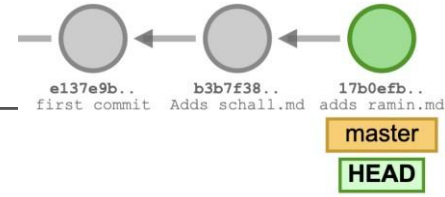
> . TechLabs



Git Collaboration 2

How to do this remote

TechLabs

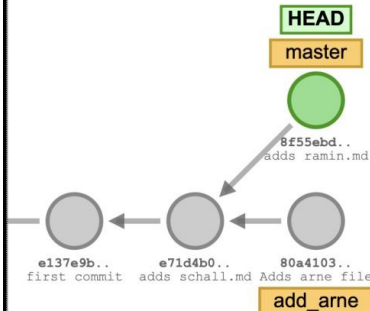
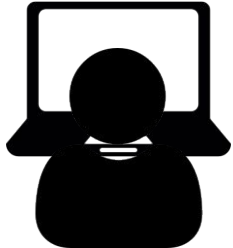


Server

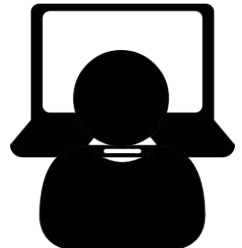


`git push`

You



Team member



Winner of the <

many 2018

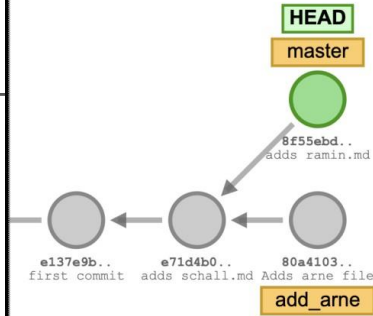
78

Git Collaboration 2

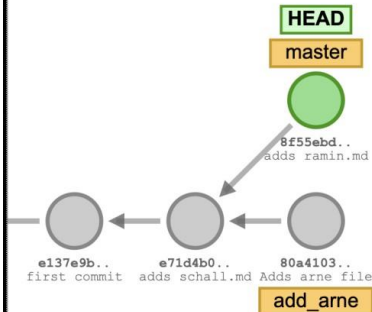
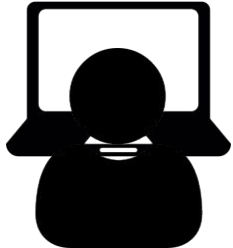
How to do this remote

```
git checkout add_arne  
git push
```

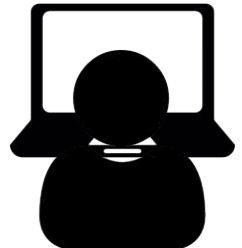
Server



You



Team member



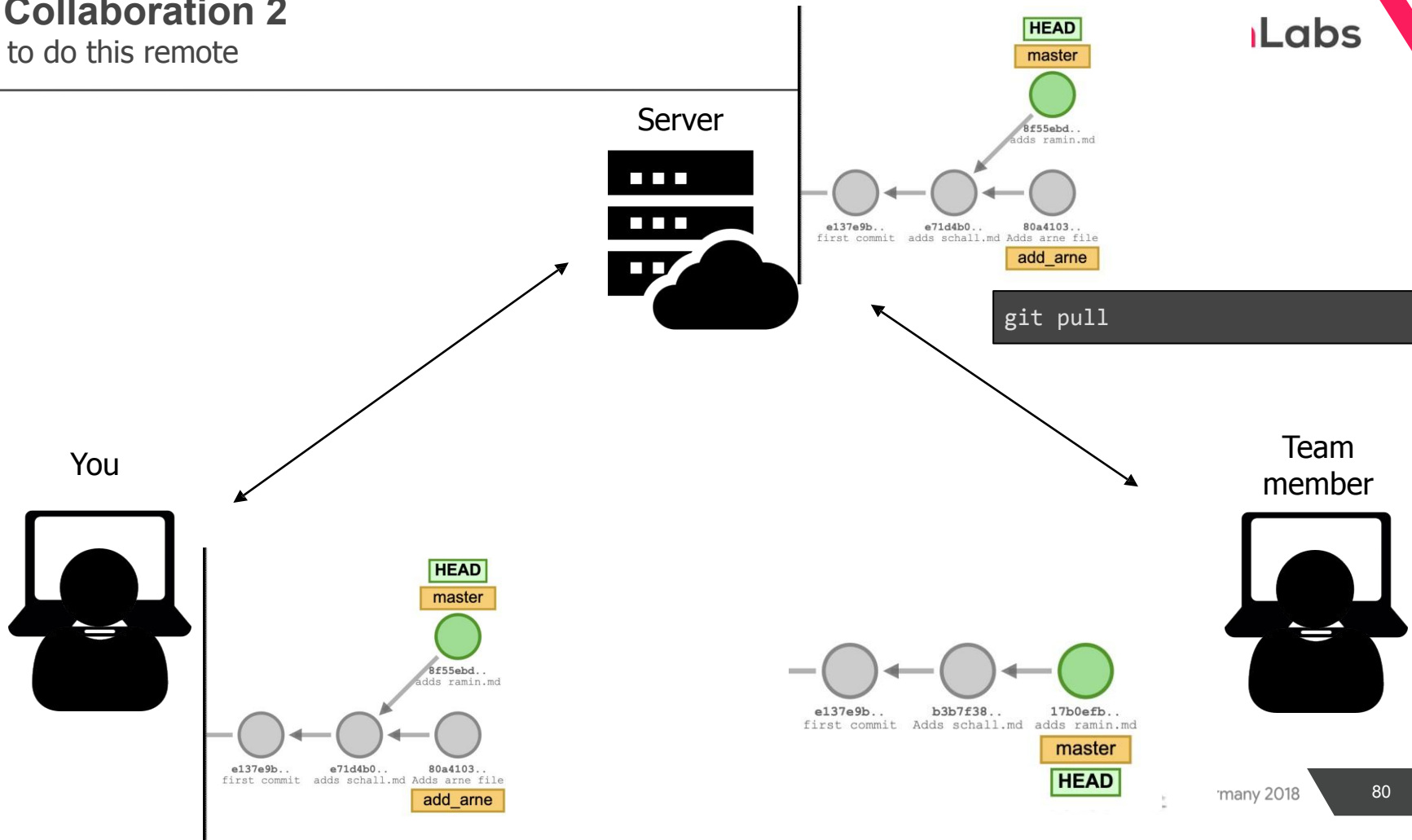
Winner of the <

'many 2018

Git Collaboration 2

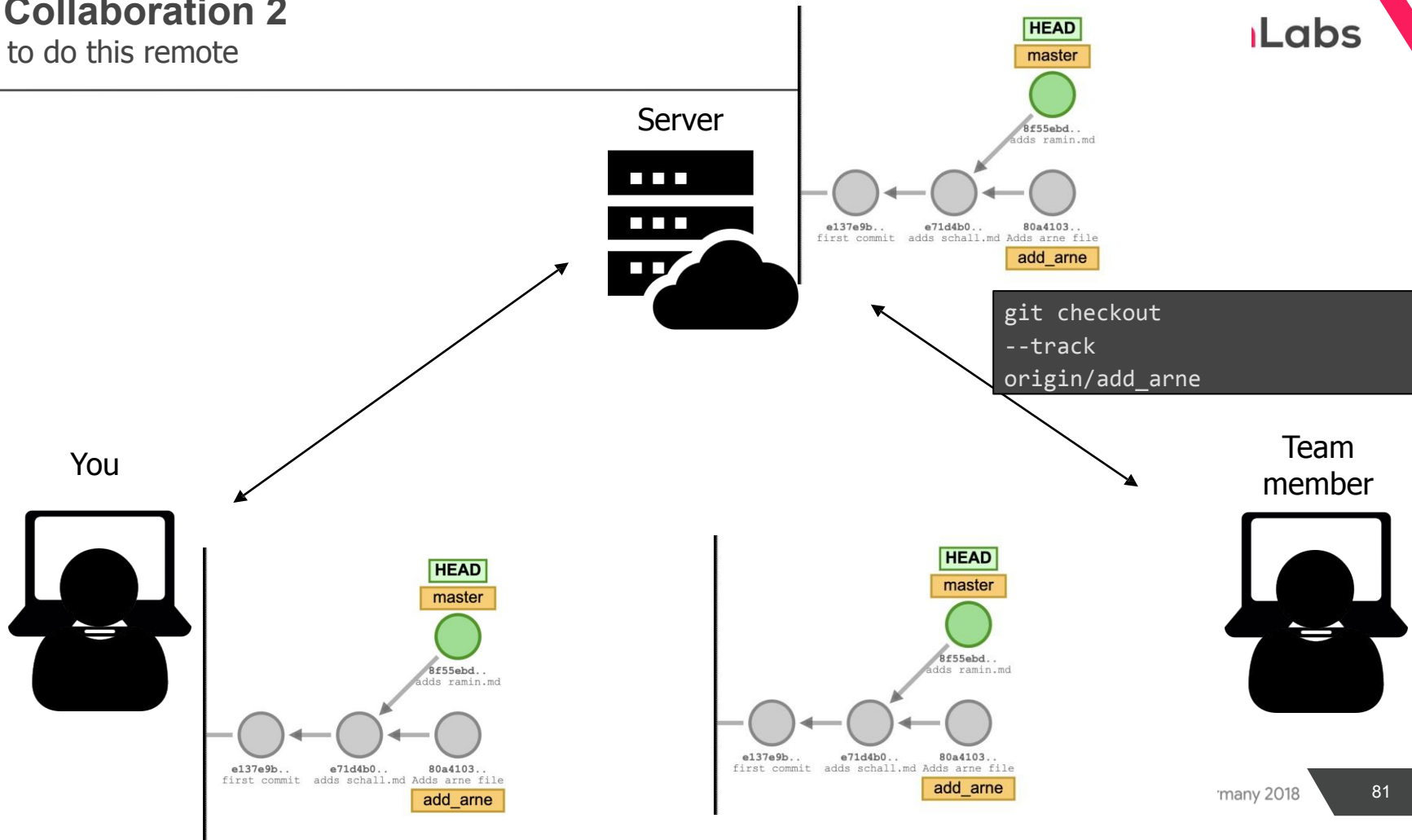
How to do this remote

Labs



Git Collaboration 2

How to do this remote



Git Collaboration 2

Merge conflicts Online

```
git checkout main
git pull
git checkout <branch>
git merge main
[ ... resolve any conflicts ... ]
git add [files that were conflicted]
git commit
    git push
```



Changes requested

1 review requesting changes by reviewers with write access. [Learn more.](#)

[Show all reviewers](#)



1 change requested



This branch has conflicts that must be resolved

Only those with [write access](#) to this repository can merge pull requests.

Conflicting files

package-lock.json
src/components/Layout/Footer.js
src/components/Layout/Layout.js
src/intl/en.json
src/pages/index.js



Merge pull request

You're not [authorized](#) to merge this pull request.

- Github allows to configure permissions for branches more granular
- Branch protection forbids to push directly to main
- It is seen as good practice in the industry
- Is used for our tasks, just follow the steps in the cheat sheet

Everyone in the team needs to do these tasks, but communicate with each other about your questions and learnings!

1. Work in your local repository from Part 1
2. Create a new branch with a name of your choice
3. Make sure you are in that new branch
4. Add a new file with some content
5. Add and commit
6. Return to the main branch
7. Check Git status & think about what happened to the file you have just added
8. Merge the created branch into main
9. Check status and file content
10. Make sure you are in main
11. Now try to create a merge conflict
 - a. Make a new branch and change 1-2 lines in a file, add & commit
 - b. Go back to main, make a different change in the same lines in the file you have just changed, add & commit
12. Merge your new branch into main
13. Solve the merge conflict

20 min

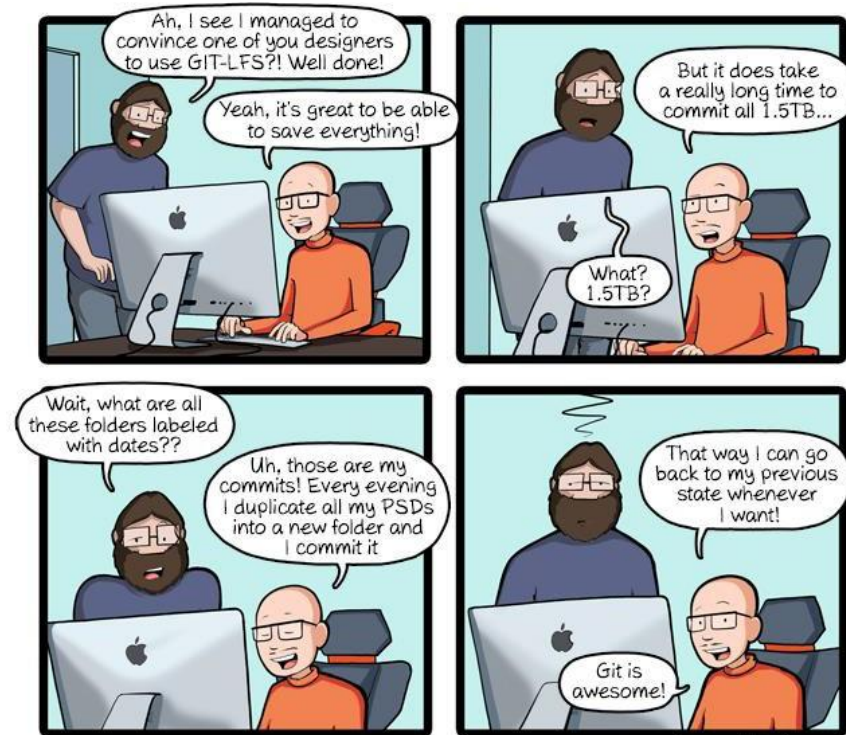
How was it?

> TechLabs

Wrap-Up

- What did you learn!
 - Work in local repositories
 - Work collaboratively in remote repositories with your team members
 - Branching and reviewing
 - How to get a repository in the state I would like to have!
- So, can I use Git now?
 - Yes, you can use it
 - It is okay to have the cheat sheet printed out next to you while working with Git!
 - And sometimes you need to ask or google commands. (Reach out to us so we can adapt the cheat sheet)

- Practice Git:
 - Learn Git even more interactive:
 - <https://learngitbranching.js.org/>
 - <https://github.com/jlord/git-it-electron#what-to-install> (We recommend this one after the workshop, if you have some more time!)
 - <http://git-school.github.io/visualizing-git/>
- You want to learn more about:
 - Git Internals & Details
 - <https://git-scm.com/book/en/v2>
 - Git Branching and Merging
 - <https://learngitbranching.js.org/>
 - Git merge conflicts:
 - <https://www.youtube.com/watch?v=cR7uPBOIk>
- Suggest next steps here
 - Practice!
 - Set-Up the same Repository twice on your computer (in different folder) with the same remote repository and practice!
 - Think about non-programming tasks you could use git for and use it!
- You still don't like the terminal?
 - Invest the time to get more familiarized with it
 - <https://www.youtube.com/watch?v=oxuRxtrO2Ag>
 - Use a Gui Git Tool
 - Recommendation: <https://git-fork.com/>



CommitStrip.com



Thanks for participating!

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Bonus Part

Git Collaboration 2

Task 1 - Bonus

Everyone in the team needs to do these tasks, but communicate with each other about your questions and learnings!

1. Now we do this collaboratively, so we work in the same repo as in part 2
2. Repository Owner: Turn on the Branch Protection (Look at the cheat sheet how to do this)!
3. Everyone creates a new branch add/lastname_description locally in that repository
4. Add a file and commit to your new branch.
5. Push the new branch online as a remote branch
6. Create a merge-request to merge your new branch into main.
7. The original owner now needs to review and merge all the merge-requests.

20 min

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Git - Repair my Stuff

(Bonus Time)

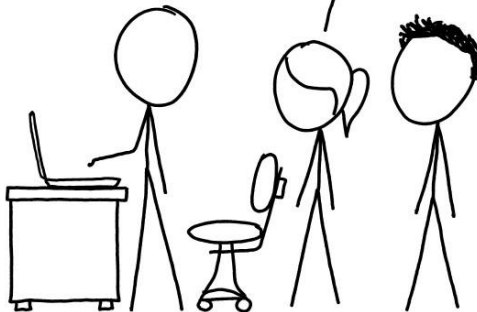
Git Repair my Stuff

Something is not working!

THIS IS GIT. IT TRACKS COLLABORATIVE WORK
ON PROJECTS THROUGH A BEAUTIFUL
DISTRIBUTED GRAPH THEORY TREE MODEL.

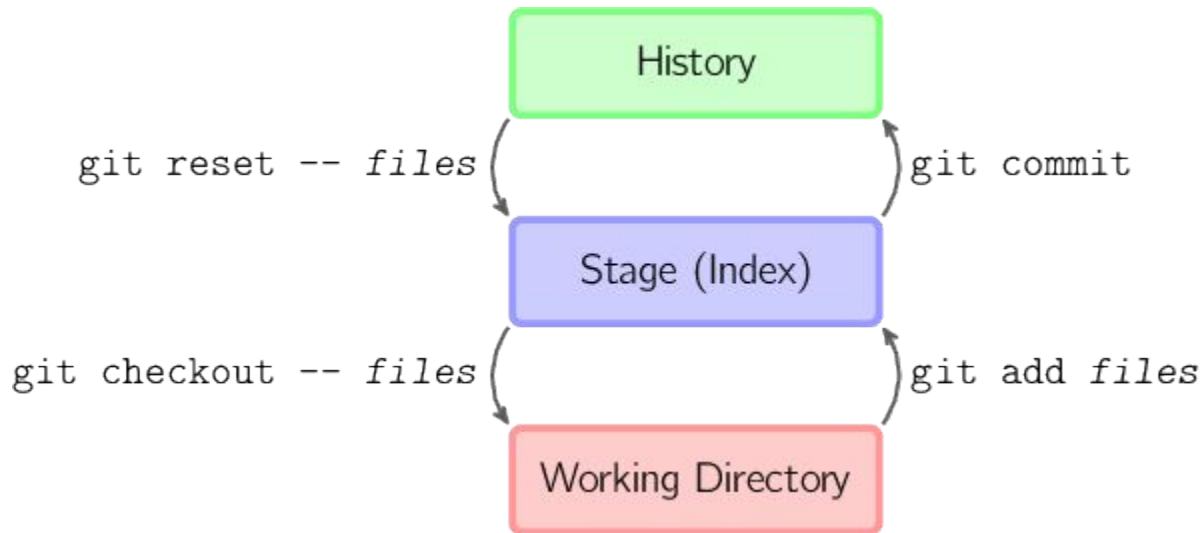
COOL. HOW DO WE USE IT?

NO IDEA. JUST MEMORIZE THESE SHELL
COMMANDS AND TYPE THEM TO SYNC UP.
IF YOU GET ERRORS, SAVE YOUR WORK
ELSEWHERE, DELETE THE PROJECT,
AND DOWNLOAD A FRESH COPY.



Git Repair my Stuff

History and Stages

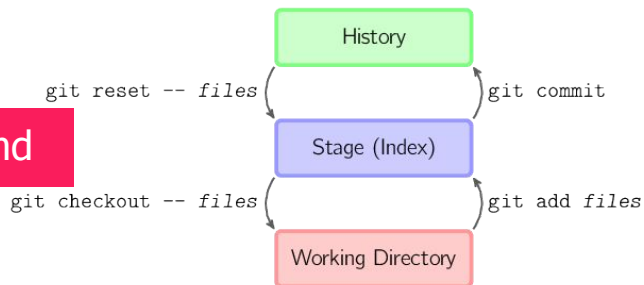


Git Repair my Stuff

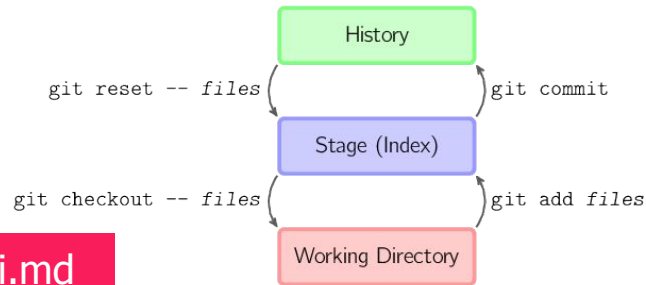
Moves from staging to working directory

`git checkout -- <bad filename>`

sebi.md

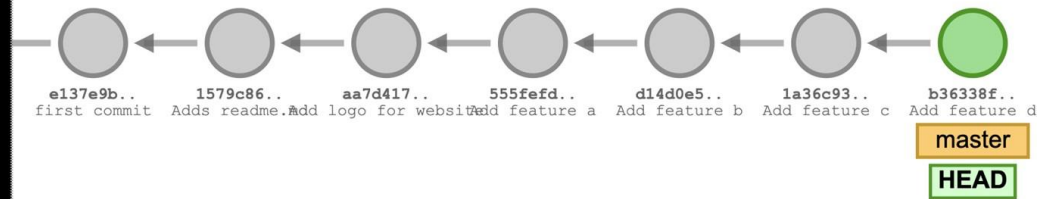


sebi.md



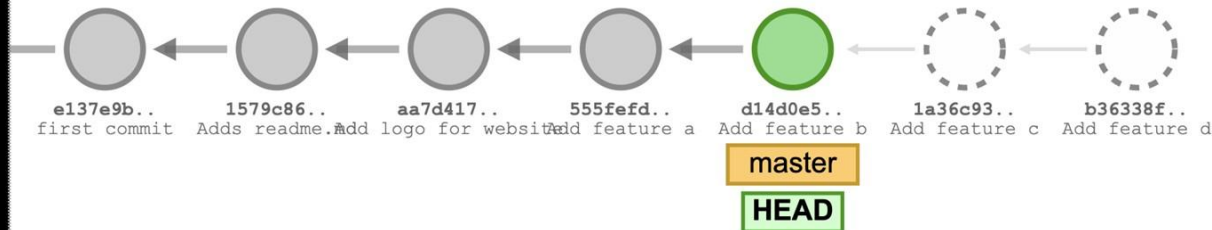
Git Repair my stuff

Undo Local Changes



```
git reset --hard <last good SHA>
```

```
git reset --hard d14d0e5
```



Git How to Repair

Undo a public change

Scenario: You just ran `git push`, sending your changes to GitHub, now you realize there's a problem with one of those commits. You'd like to undo that commit.

Undo with: `git revert <SHA>`

What's happening: `git revert` will create a new commit that's the opposite (or inverse) of the given SHA. If the old commit is "matter", the new commit is "anti-matter"—anything removed in the old commit will be added in the new commit and anything added in the old commit will be removed in the new commit.

This is Git's safest, most basic "undo" scenario, because it doesn't alter history—so you can now `git push` the new "inverse" commit to undo your mistaken commit.

`git push --force`

Do NOT use (UNLESS YOU KNOW EXACTLY WHAT YOU ARE DOING)

- Checks:
 - What branch am I in? -> If its main don`t use it
 - What branch do I want to push -> If its master don`t use it
 - What is the current status of the remote branch -> Did other people use it? -> don`t use it
- Only use if you are 110% sure that you are pushing to a non- main branch, and that no one else works on that branch!
- YOU CAN DELETE A LOT OF PROGRESS AND YOU CAN MAKE YOUR TEAM MEMBERS VERY VERY ANGRY!

Git How to repair

I don't want to see my vs code folder.

A gitignore file specifies intentionally untracked files that Git should ignore. Files already tracked by Git are not affected; see the NOTES below for details.

No need to write your own: Just choose the right one from here

- <https://github.com/github/gitignore>

Git How to repair

Tasks (if we have time)

Everyone in the team needs to do these tasks, but communicate with each other about your questions and learnings!

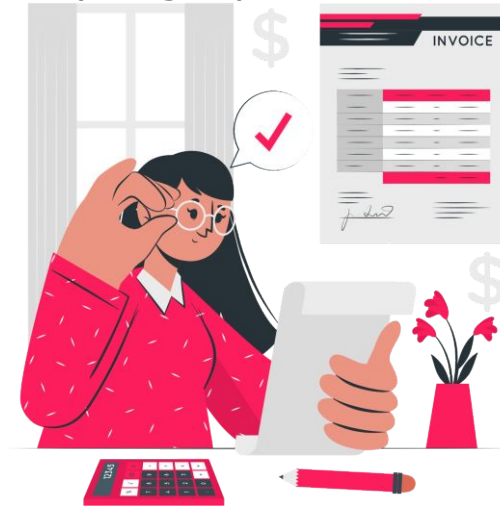
1. Commit wrong things to your coworker's repo (No review this time push straight to main).
2. Remove the wrong stuff from your project.
3. Add a useful .gitignore to your repo.

20 min

Questions?



Look at the cheat sheet and ask
your group members



How was it?