Avanceret Programmering (Uge 40)

Christian Gram Kalhauge (CKL)

Today

- Project
- Git / Github
- Sorting

Section 1

Project

Project

100 hours project.

- Due December 10th
- Deliveries and presentations (5 min) every 2 weeks:
 - October 8th
 - October 29th
 - November 12th
 - November 26th
- Delivery: Github-link with README.md.
- Exam: Presentation of project with follow-up questions.

Section 2

Git / Github

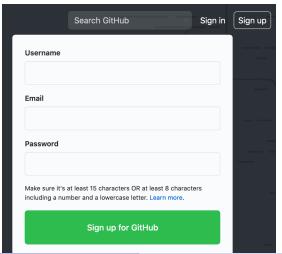
Git

Git is a Version Control System. It is almost impossible to do any kind of development without it.



Github - Create User

Create a user on GitHub



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Github - Create Repository



Repositories

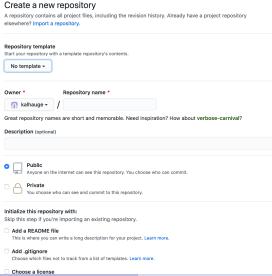


Find a repository...

Figure 2: Create a Repository



Github - Create Repository (cont.)



Git - Basics

Commit

A specific point in time of the code

Staging

The place you put things to be committed.

Branch

A pointer to a Commit.

Remote

A remote storage of the version history.

Git Bash

Download and install Git Bash from here:

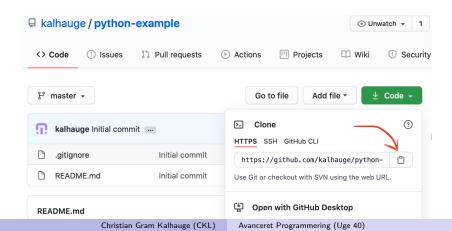
https://gitforwindows.org/



Git' Started

Open Git Bash in the folder you'll like the code in.

\$ git clone <paste-url>



Git' Going

When you have made changes to your repository:

```
# stage all changes
$ git add .
# commit the staged changes with a commit message
# change <commit-message> with your message
$ git commit -m '<commit-message>'
# push the results to the remote
$ git push
```

Git' A Grip

See the status of the repository

\$ git status

See the history

\$ git log --oneline --graph --all

Git' Back

Undo all your changes since last commit:

\$ git checkout .

Go back a commit

\$ git reset --hard HEAD^

Go back to the last version you uploaded

\$ git reset --hard origin/master

Git' Good

https://www.youtube.com/watch?v=2sjqTHE0zok

https://davidenunes.com/git-good/



Section 3

Sorting