

# 1. Setting up your pc

Git training Duco

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Nero Vanbiervliet

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# Software for using Git

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# Graphical interface

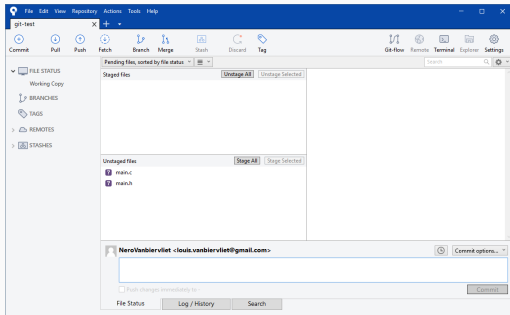
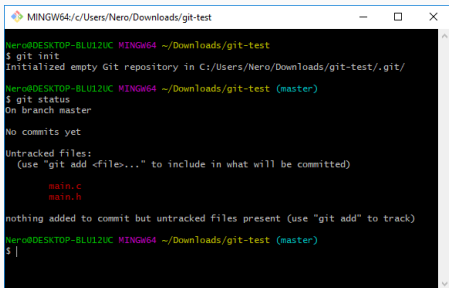


Figure 1: Sourcetree, a GUI for Git.

## Advantages

- easy to use
- visual representation

# Command line interface



```
MINGW64/c/Users/Nero/Downloads/git-test
Nero@DESKTOP-BLUI2UC MINGW64 ~/Downloads/git-test
$ git init
Initialized empty Git repository in C:/Users/Nero/Downloads/git-test/.git/
Nero@DESKTOP-BLUI2UC MINGW64 ~/Downloads/git-test (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)

        main.c
        main.h

nothing added to commit but untracked files present (use "git add" to track)
Nero@DESKTOP-BLUI2UC MINGW64 ~/Downloads/git-test (master)
$ |
```

Figure 2: Git bash, a command line interface for Windows.

## Advantages

- can be faster for simple tasks
- more powerful

# Collaborating

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Git server



Figure 3: A Git server makes collaborating possible.

Git server



Figure 4: We will be using Bitbucket as Git server.

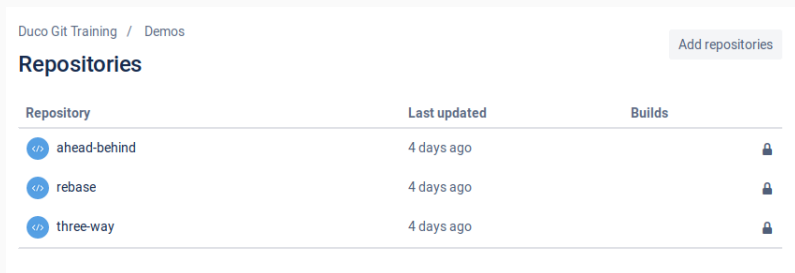
# Repositories

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# Repositories

A repository is the collection of files related to a project



Duco Git Training / Demos Add repositories

## Repositories

Repository	Last updated	Builds
 ahead-behind	4 days ago	
 rebase	4 days ago	
 three-way	4 days ago	

**Figure 5:** On the bitbucket page for this training you can find multiple repositories.

Git server



**Figure 6:** Downloading a repository to your computer is what we call cloning in Git vocabulary.

# Exercises

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## Exercise 1.1

Clone the repository containing the slides of this session.  
Follow the following steps (helpful images on next slide)

1. Open <https://bitbucket.org/duco-git-training/git-slides> in your favorite browser
2. In the righthand corner, click clone to obtain the **HTTPS** url. Copy the url
3. Click clone in Sourcetree
4. Paste the HTTPS url
5. Choose a destination path (file path)
6. Confirm cloning

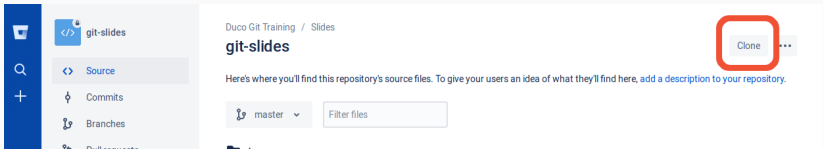
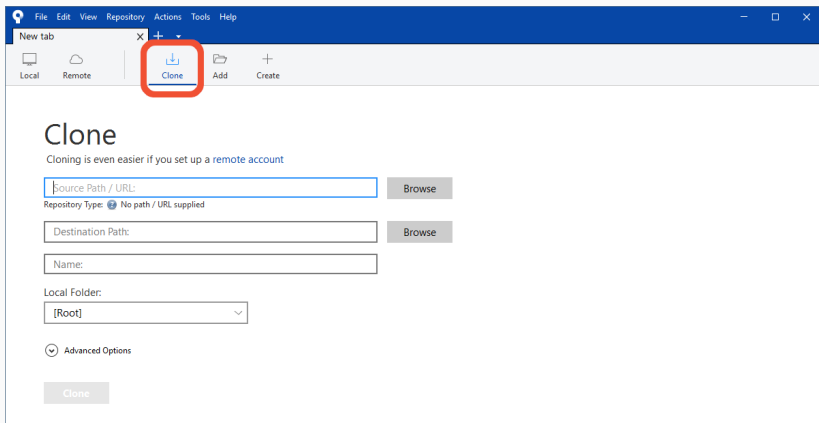


Figure 7: Click the clone button.



Figure 8: In the popup, select HTTPS.



**Figure 9:** Click the clone button and paste the HTTPS url.

## Questions:

1. When cloning, you had to pick a destination path. Take a look in this directory. What can you see?
2. Change the settings of file explorer to show hidden files (*File → Options → View tab → Show hidden files, folders and drives*). What do you see now?

## Exercise 1.2

Because you are signed in using your Bitbucket account, there is a more easy method to clone repositories. Clone the `adam-and-eve` repository by using the *Remote* screen (see image below).

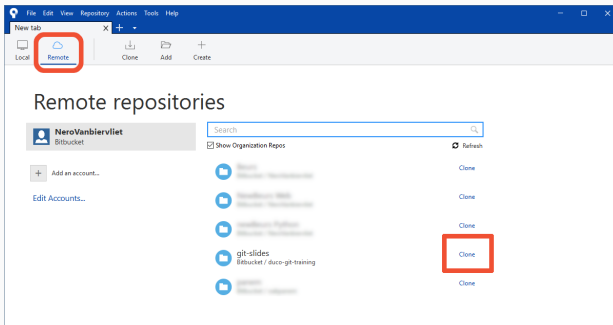


Figure 10: Cloning is easier when signed in.



## Exercise 1.3 (optional)

Repositories can also be cloned from other websites than Bitbucket. Try cloning the following Github repository:

<https://github.com/NeroVanbiervliet/kat>

# Vocabulary

1	working directory	4	6
repository	staging area/index	remote	feature
clone	gitignore	origin	release
		push	tag
2	3	fetch	hotfix
commit	branch	pull	versioning
commit hash	remote		
checkout	ahead/behind	5	7
HEAD	merging	fast forward	amend
untracked	master	three-way	revert
unmodified	develop	rebase	stash
modified		merge conflict	reset
staged		ours & theirs	