For the new proposal we're using a version control device (**Git**) handling all of our proposal related files. For this, your computer needs to have the appropriate apps installed (**Git** & **TortoiseGit**). As we use LateX as text software tool we also need a LateX editor (**TeXmaker**) and a pdf-maker software (TeX-interpreter called **MikTeX**).

For installing all of this, the following sections have been set up.

Setup Git-Account:

For non-RWTH members:

a) Create an account on https://github.com/

b) Send the E-mail you used to create the account to koch@wsa.rwth-aachen.de or pielsticker@wsa.rwth-aachen.de

c) Switch to https://git.rwth-aachen.de/users/sign_in and select "Sign in with GitHub"
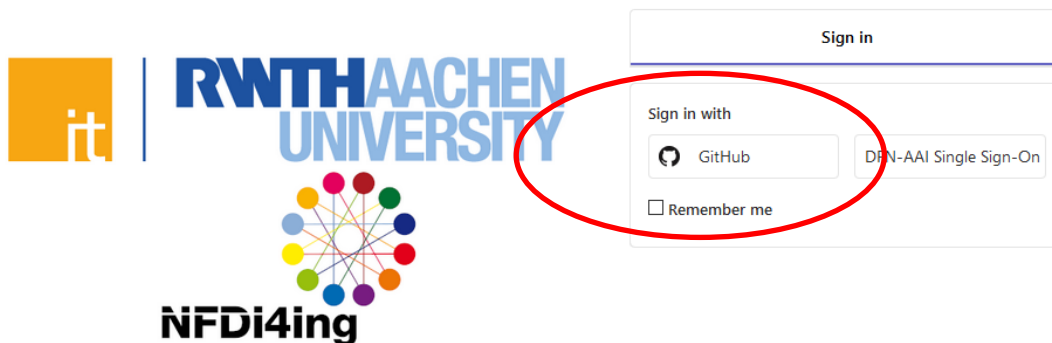
d) Enter your github-email and your github password

e) Skip page 3

For RWTH members:

a) Send your RWTH working mail to koch@wsa.rwth-aachen.de or pielsticker@wsa.rwth-aachen.de (e.g. #@wsa.rwth-aachen.de / #@aia.rwth-aachen.de / #@itv.rwth-aachen.de)

b) Switch to https://git.rwth-aachen.de/users/sign_in and select DFN AAI Single Sign-On

c) Choose RWTH Aachen Univisity and afterwards log in via "RWTH Single Sign-On"

For all oxyflame members

After you have successfully logged in (How to log in: non-RWTH member see page 2 / RWTH-members see page 3)

a) Switch to "Settings" (upper right corner)
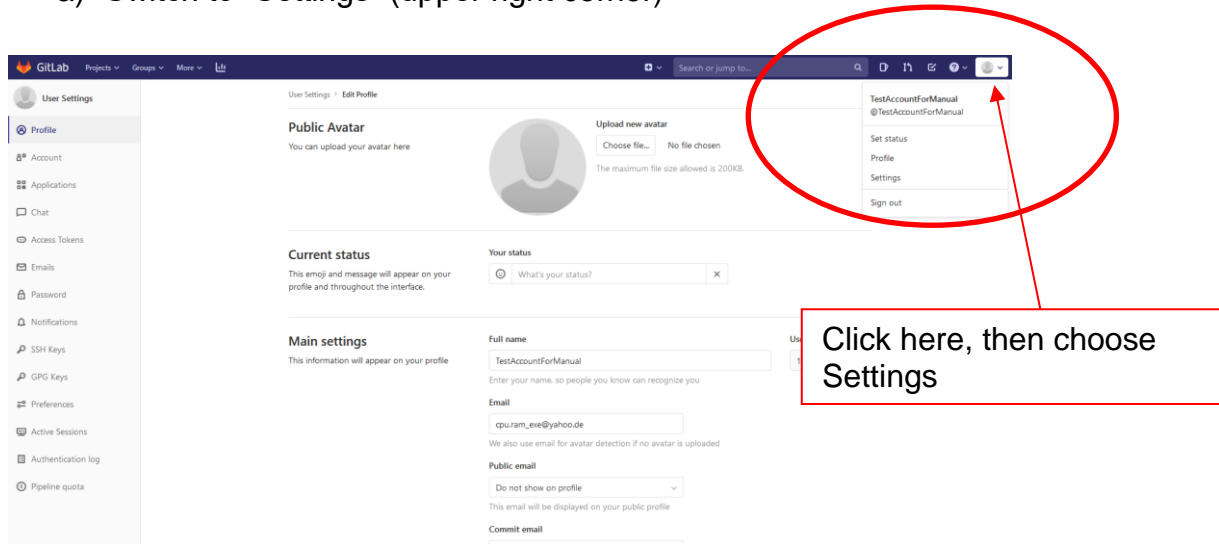
b) Set and save new password
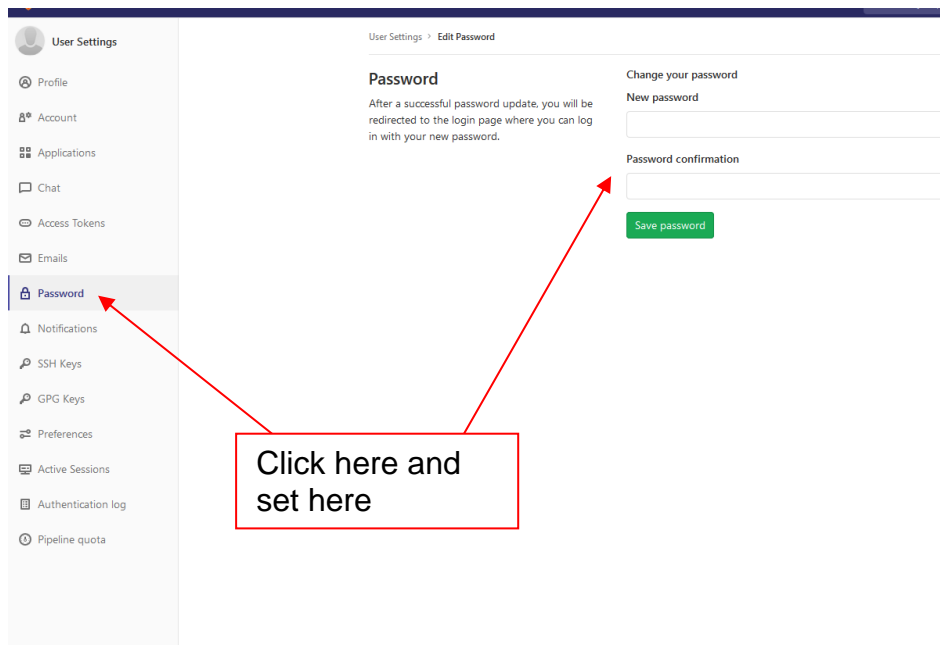
Installation Guide of Git

1. Download git on https://gitforwindows.org/
2. Start installation by double clicking the downloaded file
3. Press Next
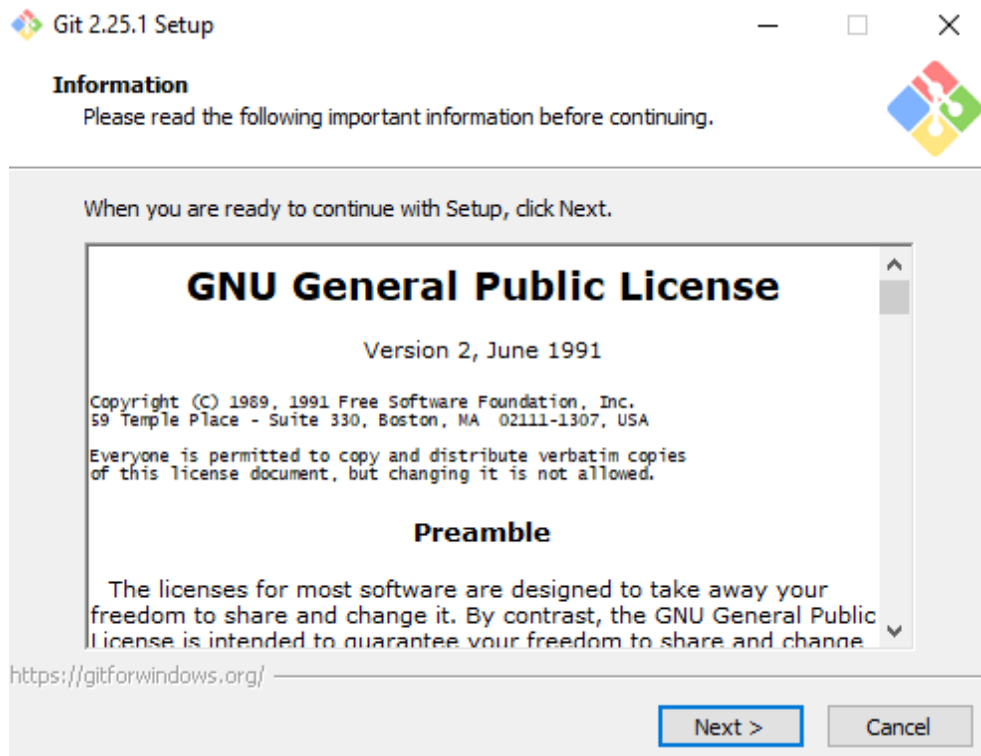
4. Choose installation directory and press Next
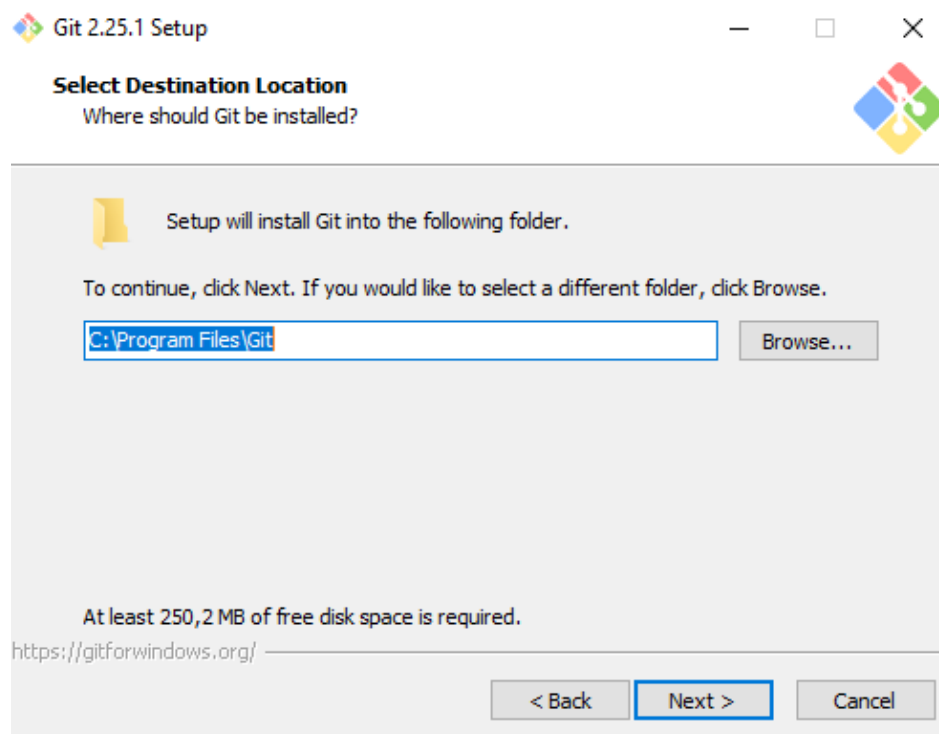
5. Check the shown check boxes and press Next
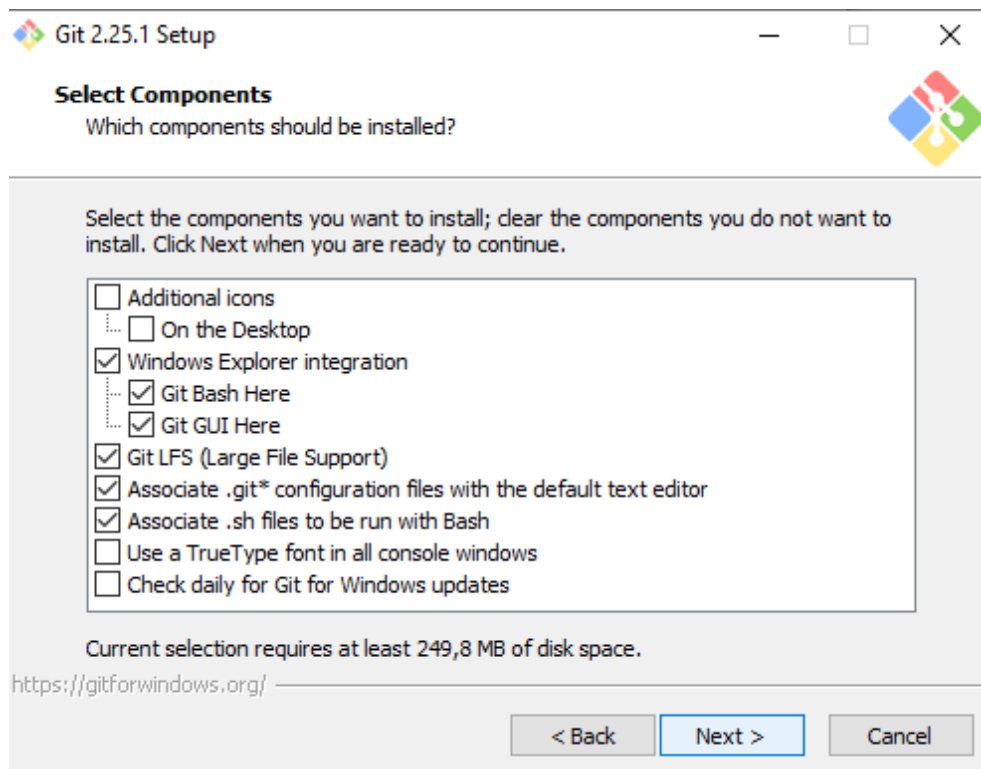
6. Check "Don't create a Start Menu folder" and Press "Next >"
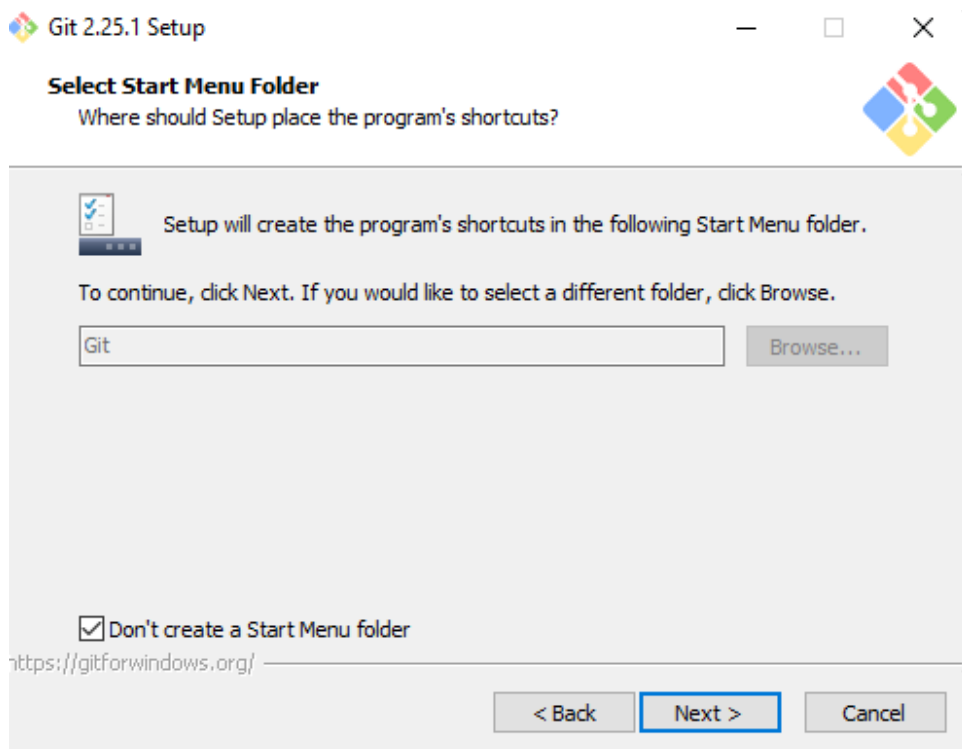
7. Press Next >" it is not necessary to choose an editor
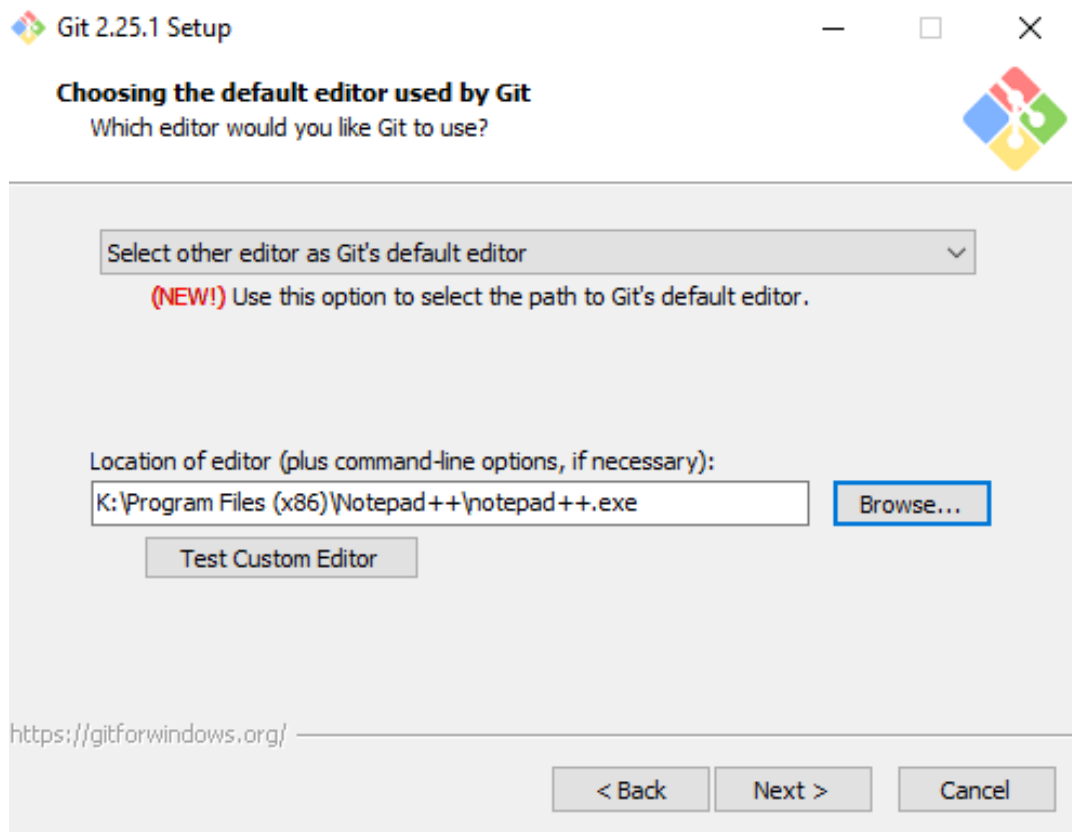
8. Check the second option and press Next
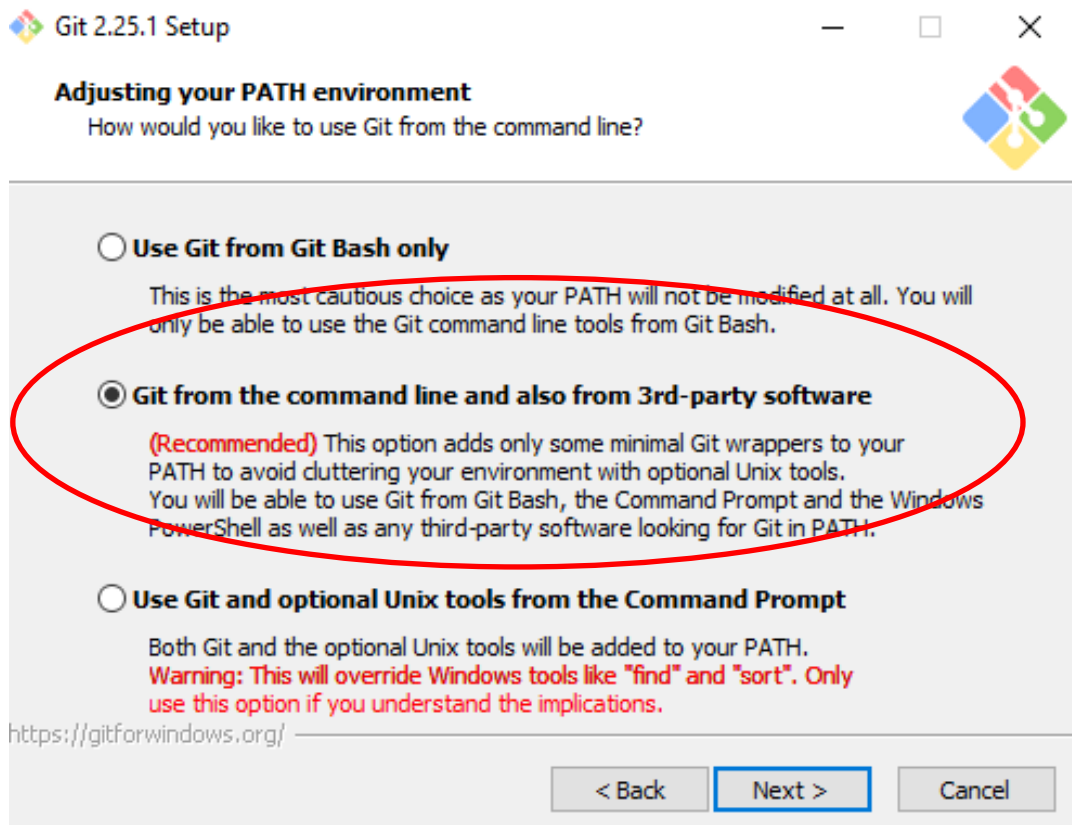
9. Check first option and press Next

10. Check first option and press Next

11. Check the first option and press Next

Git 2.25.1 Setup — □ ✕

Configuring the terminal emulator to use with Git Bash
Which terminal emulator do you want to use with your Git Bash?

◉ **Use MinTTY (the default terminal of MSYS2)**

Git Bash will use MinTTY as terminal emulator, which sports a resizable window, non-rectangular selections and a Unicode font. Windows console programs (such as interactive Python) must be launched via `winpty` to work in MinTTY.
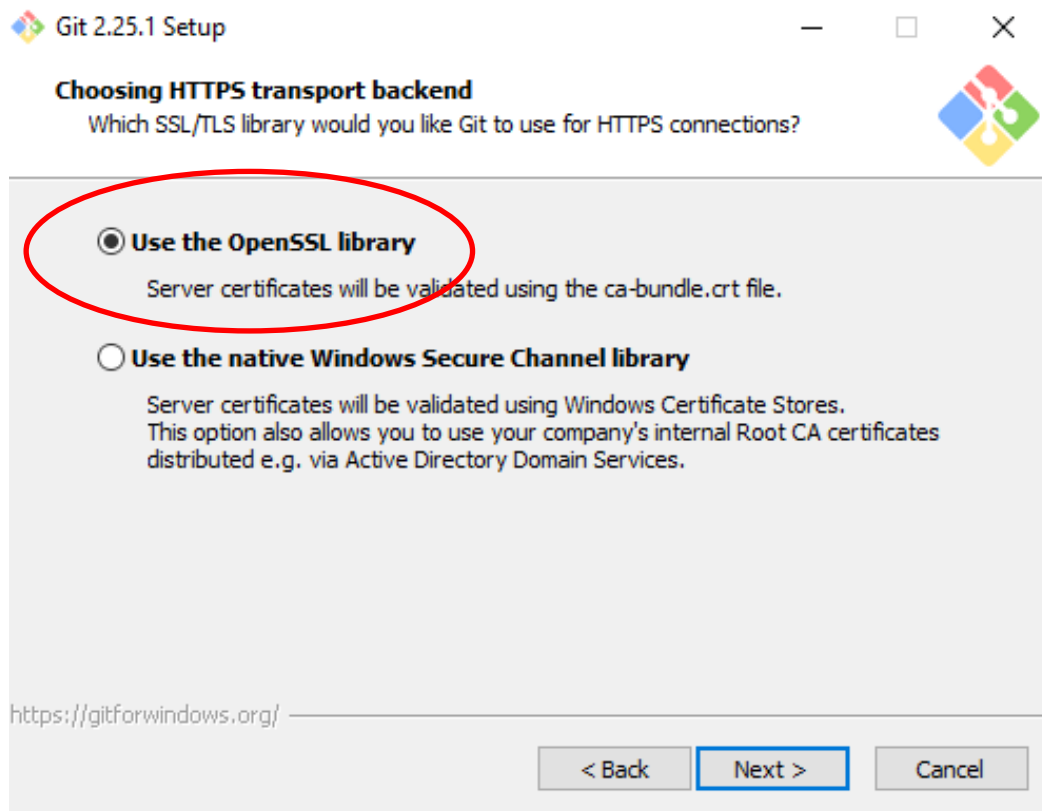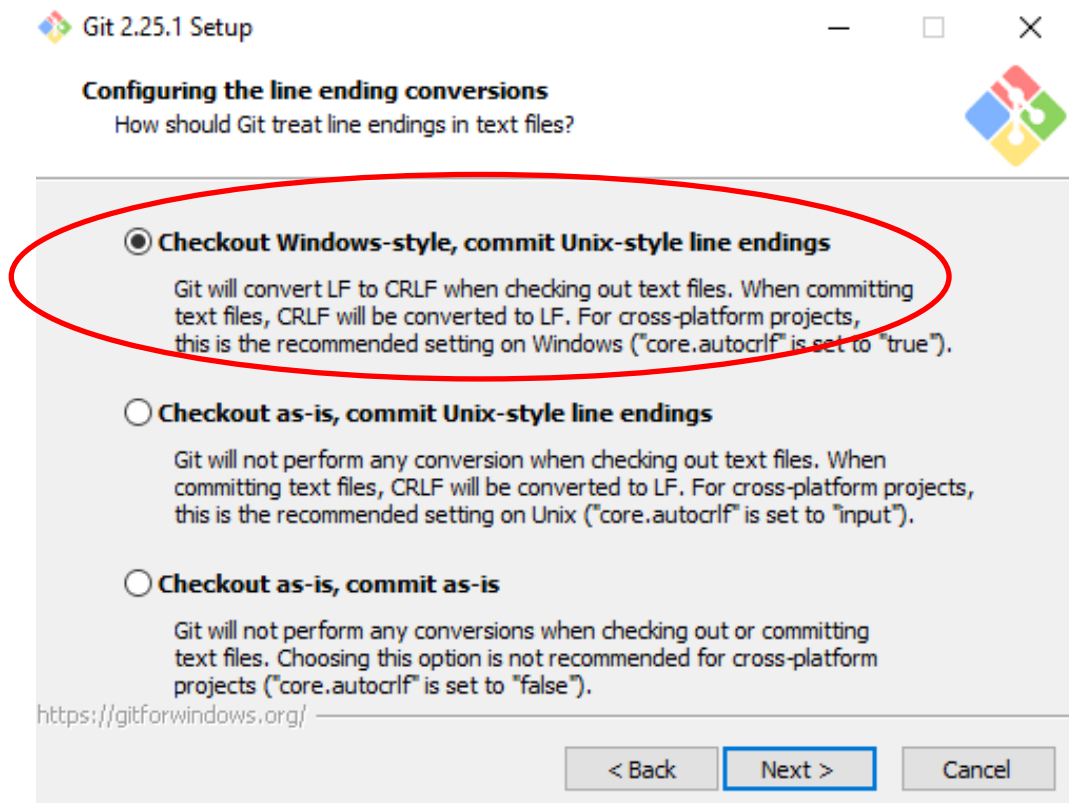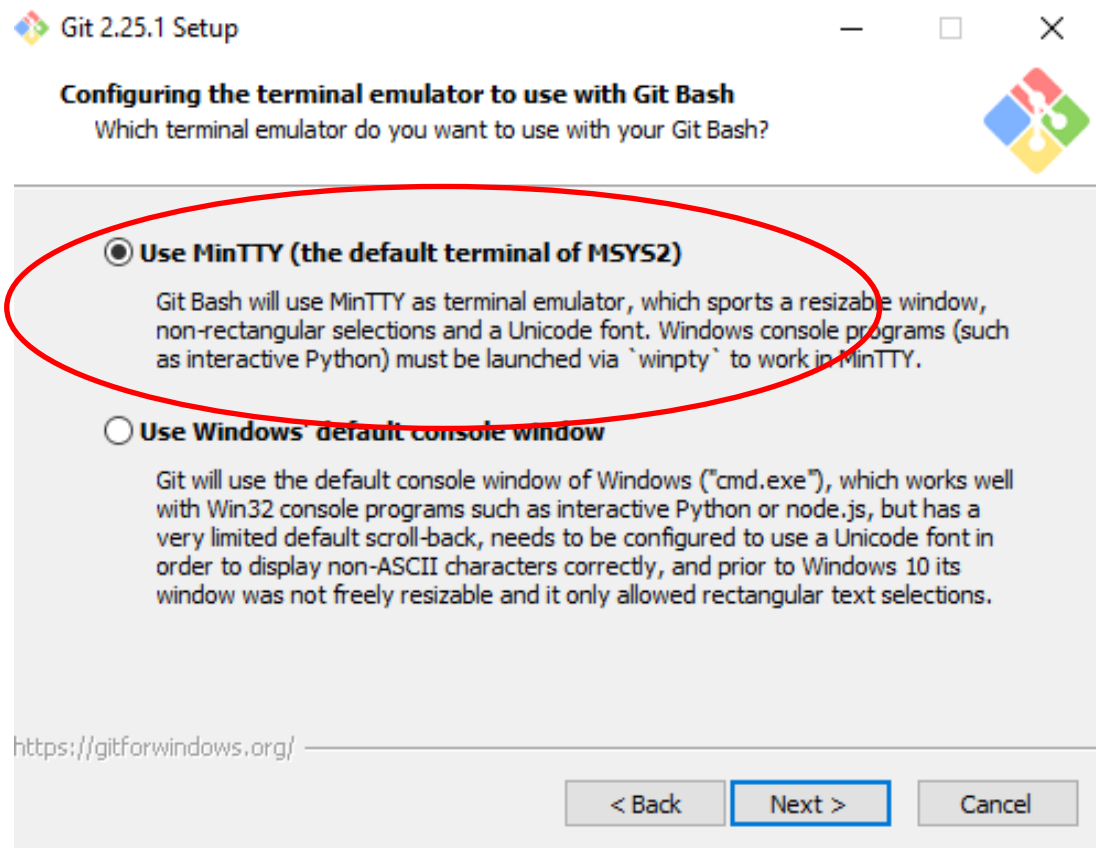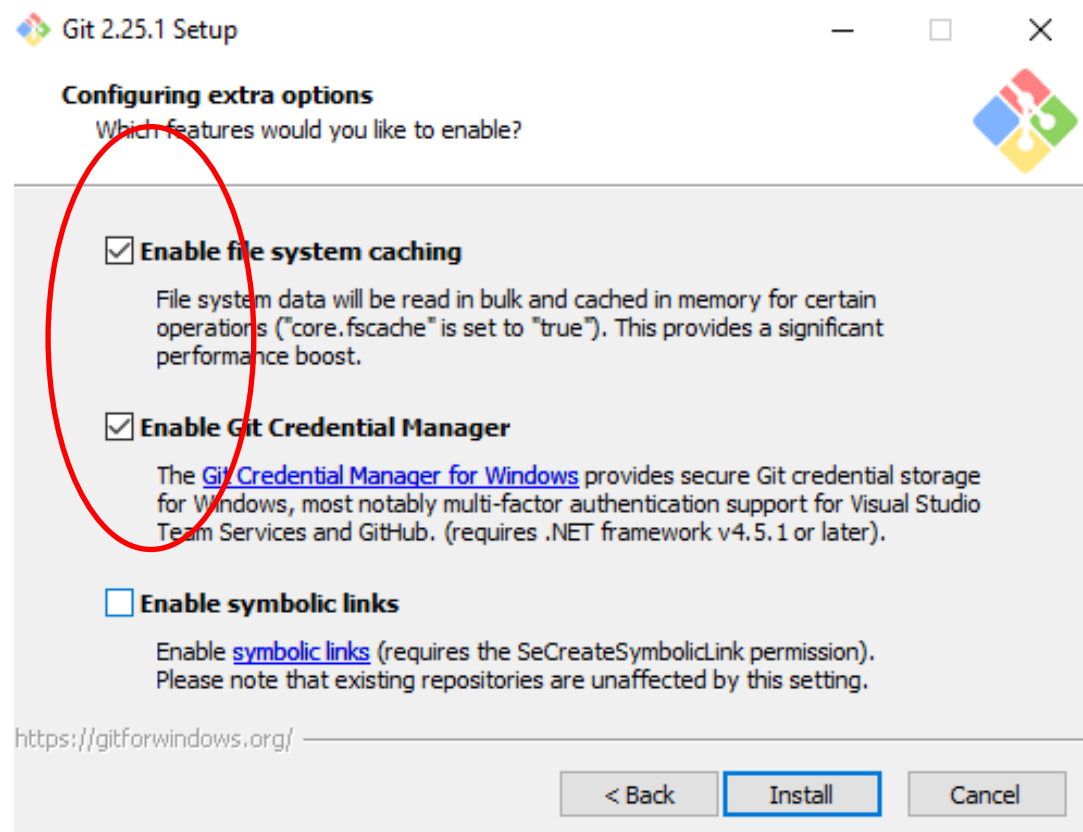
◯ **Use Windows' default console window**

Git will use the default console window of Windows ("cmd.exe"), which works well with Win32 console programs such as interactive Python or node.js, but has a very limited default scroll-back, needs to be configured to use a Unicode font in order to display non-ASCII characters correctly, and prior to Windows 10 its window was not freely resizable and it only allowed rectangular text selections.

https://gitforwindows.org/

[< Back] [Next >] [Cancel]

12. Check first and second option and press install

Git 2.25.1 Setup — □ ✕

Configuring extra options
Which features would you like to enable?

☑ **Enable file system caching**

File system data will be read in bulk and cached in memory for certain operations ("core.fscache" is set to "true"). This provides a significant performance boost.

☑ **Enable Git Credential Manager**

The Git Credential Manager for Windows provides secure Git credential storage for Windows, most notably multi-factor authentication support for Visual Studio Team Services and GitHub. (requires .NET framework v4.5.1 or later).

☐ **Enable symbolic links**

Enable symbolic links (requires the SeCreateSymbolicLink permission). Please note that existing repositories are unaffected by this setting.

https://gitforwindows.org/

[< Back] [Install] [Cancel]

13. The installation of Git will run now
14. Restart your computer

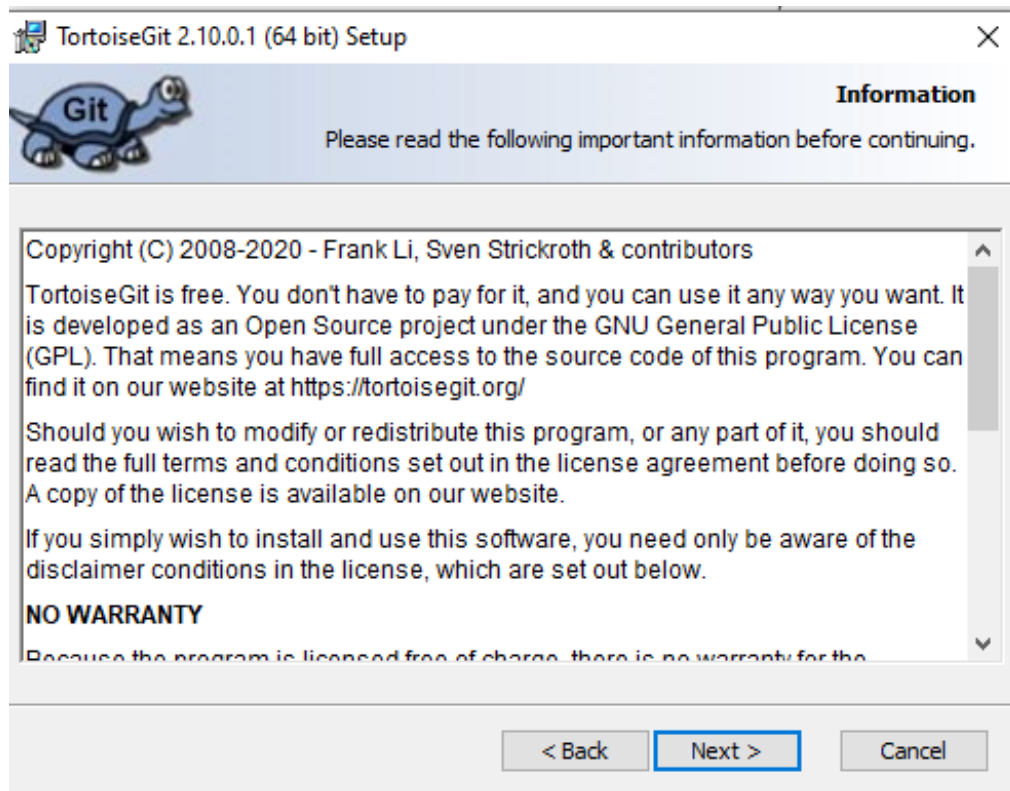# Installation of tortoiseGit:

1. **Download tortoiseGit** on https://tortoisegit.org/download/

   Depending on your system download 32-bit or 64-bit version. If you don't know your systems version: Double click Workstation, right click and choose properties and check your system.
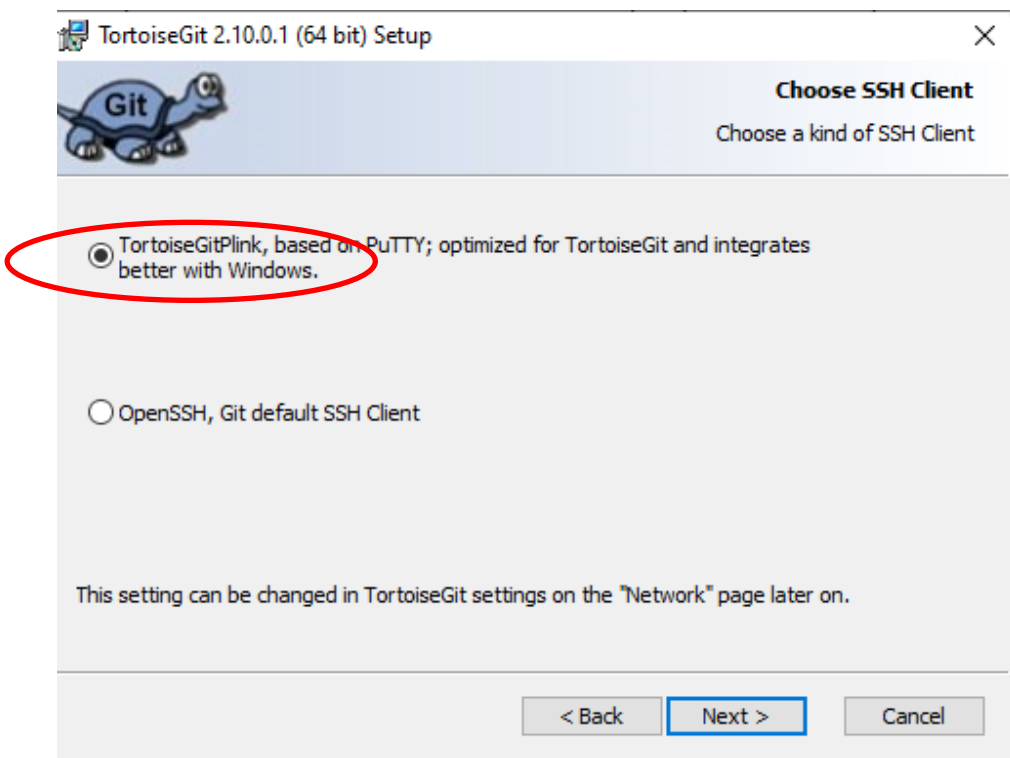
2. Start the installation by **double clicking the downloaded file**
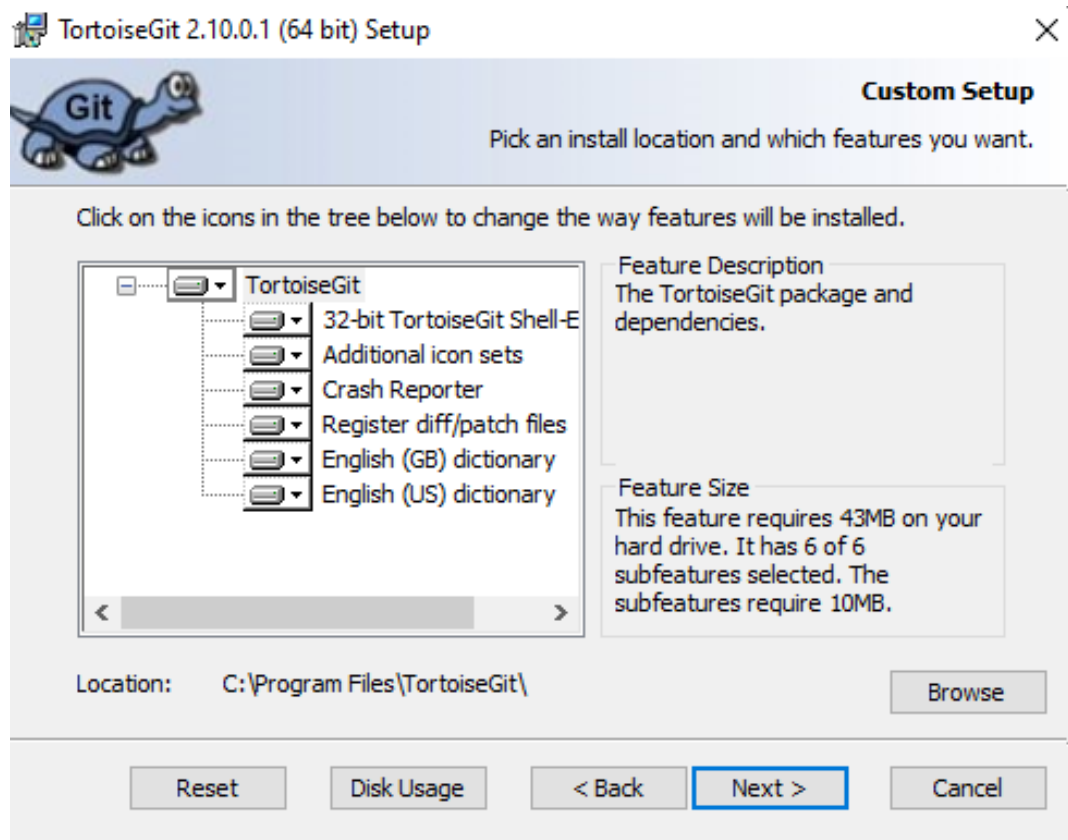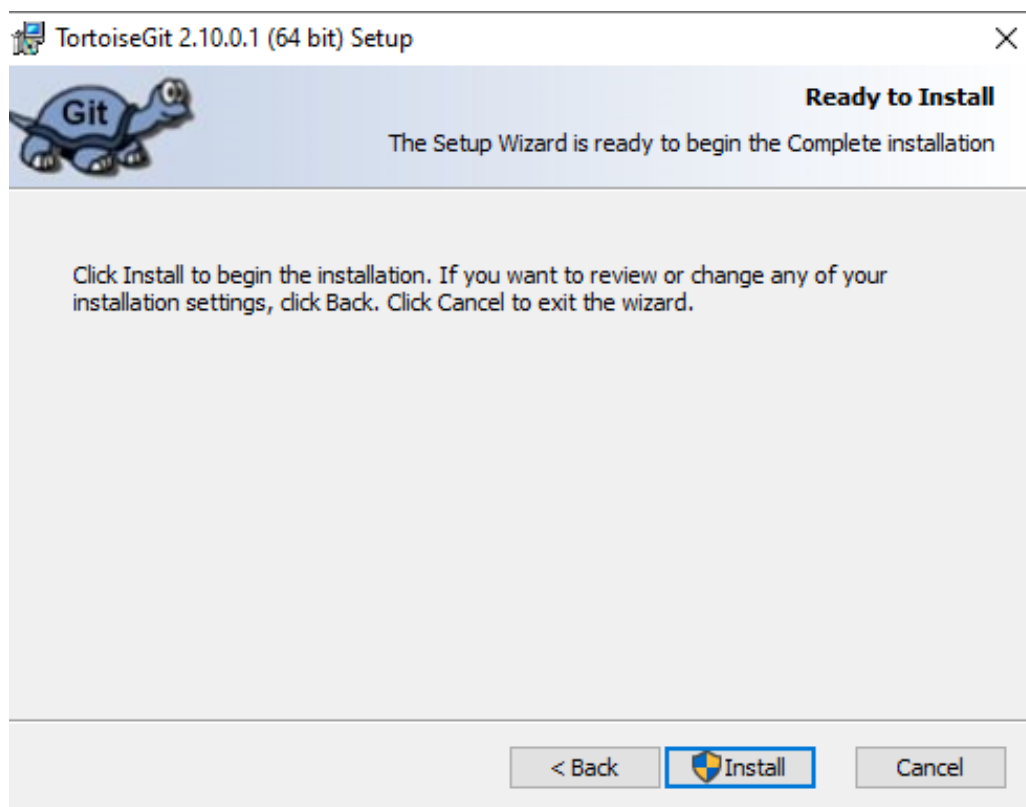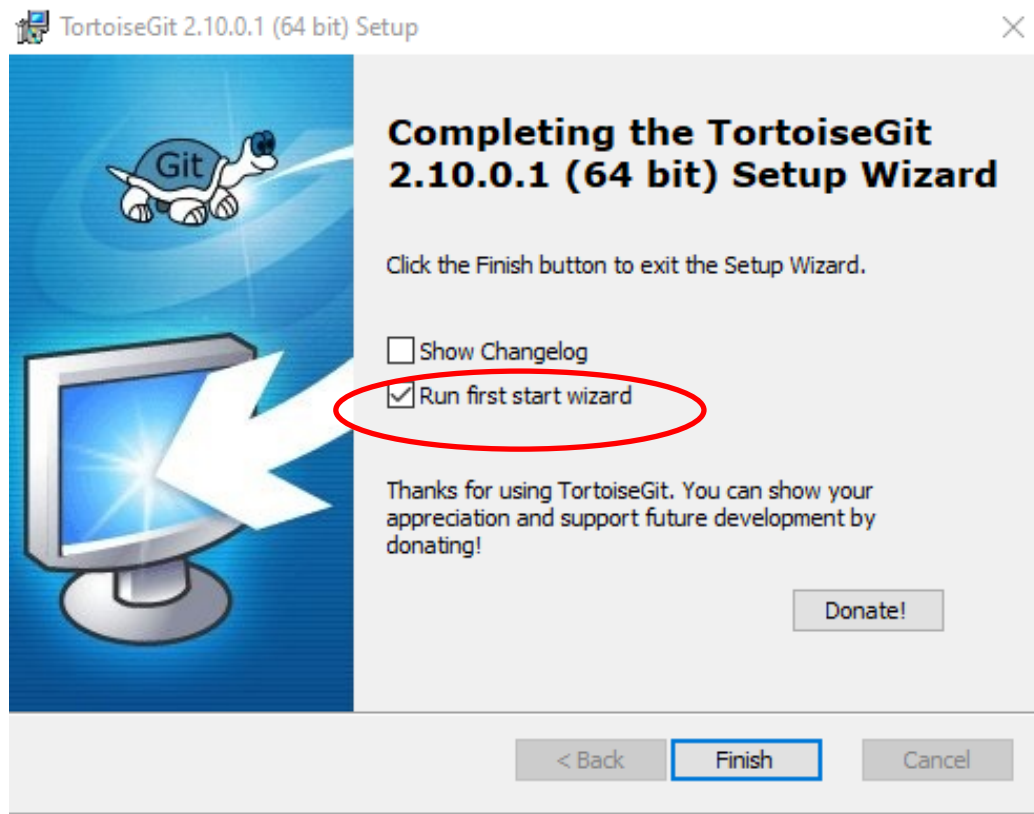3. Click Next

4. Click Next

5. Check first option and click Next

6. Choose directory and click Next
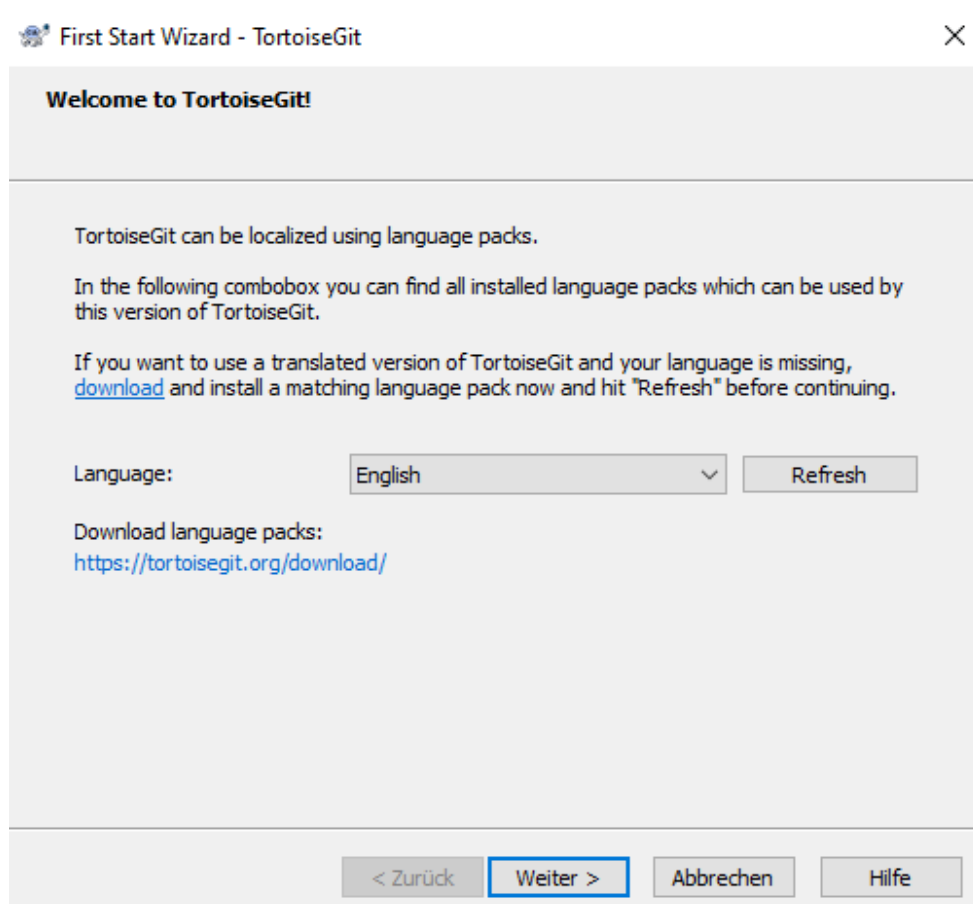

7. Click install
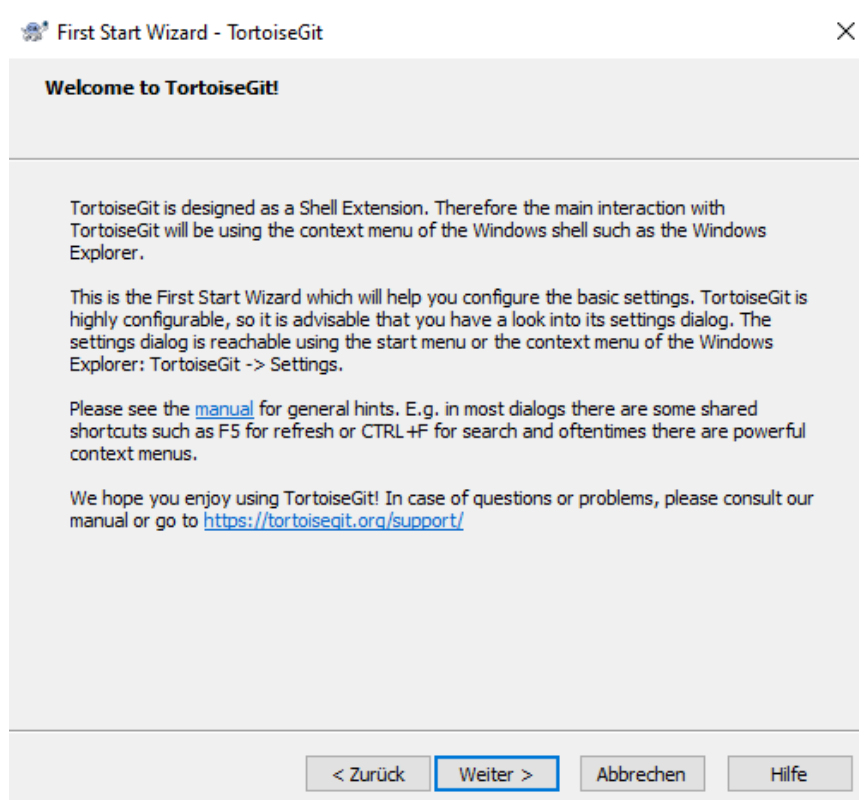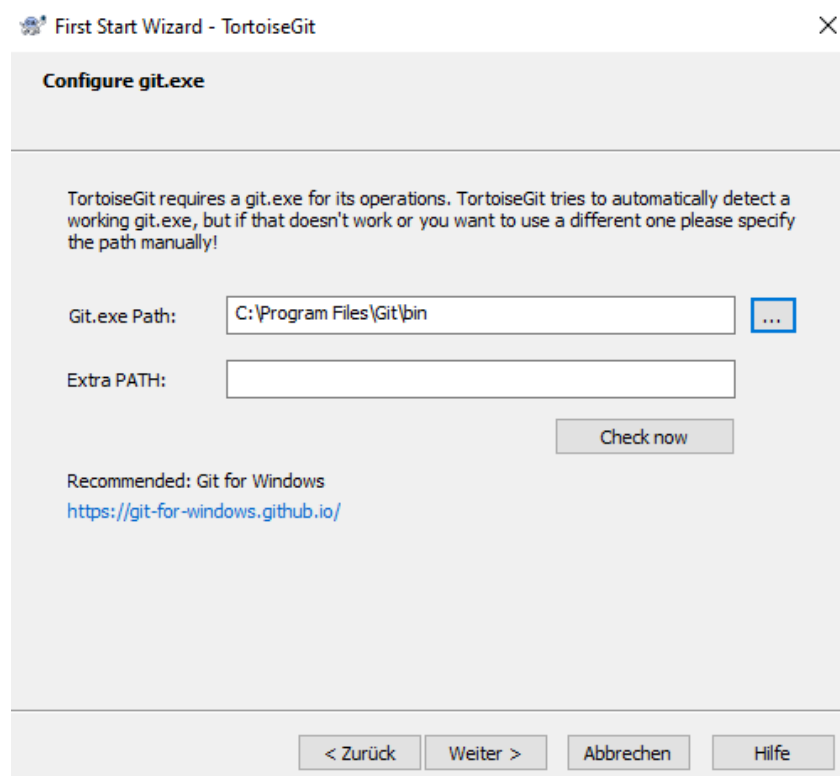
8. Check second option and click finish

9. Choose English and press Next

10. Press Next

11. Choose installation directory of git.exe (first program that was installed) and press next. Normally you shouldn't have to choose the directory and the installation guide found the correct path by itself

12. Configure user information. Here, you should enter the email of your Github-account (or as RWTH-Member your working mail #@wsa.rwth-aachen.de / #@aia.rwth-aachen.de / #@itv.rwth-aachen.de)

13. Choose the shown options and finish

Installation of Latex

For the generation of your Latex document a TeX distribution and an editor are required. Popular editors are Texmaker or Texstudio. You can also use other editors of your choice. Here, we will explain the use of Texmaker. As TeX distributions, there exist MiKTeX and TexLive. Both distributions will work with the proposal, but here the use of MiKTeX is explained.

Installation von MiKTeX 2.9

1. Download the MiKTeX setup file on https://miktex.org/2.9/setup. Depending on your sestyms version you need to download either 32-bit or 64-bit version. (Double click Workstation. Right click and choose properties and check system)

2. Afterwards execute the downloaded file - *basic-miktex-2.9.7386.exe (32-bit) or basic-miktex-2.9.7386-x64.exe (64-bit)* – and follow the instructions (ignore Windows warning):

   a. Check option „*I accept the MiKTeX copying conditions*" and click "*Weiter >*"
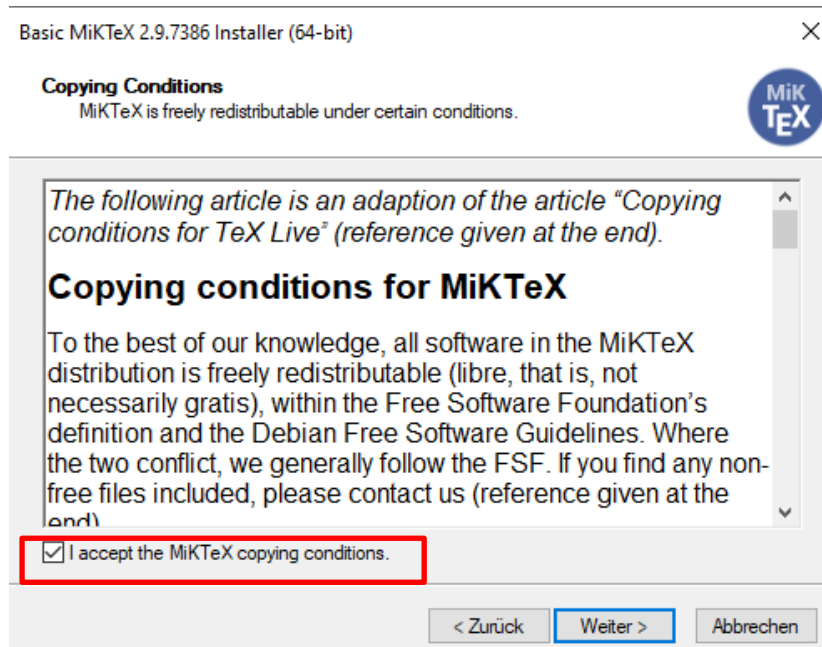
   b. Check option „*Anyone who uses this computer (all users)*" and click "Weiter >"
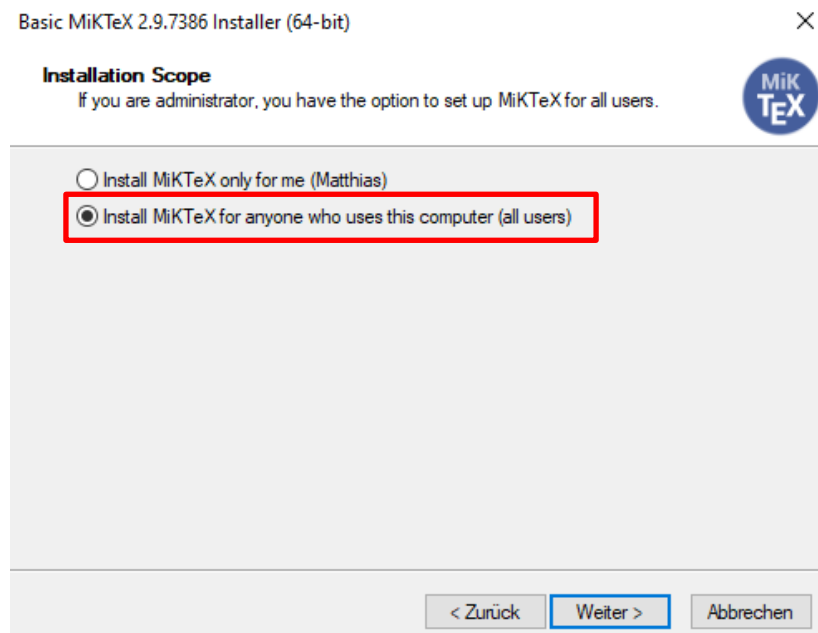
c. *Set „Installation Directory" and click „Weiter >"*
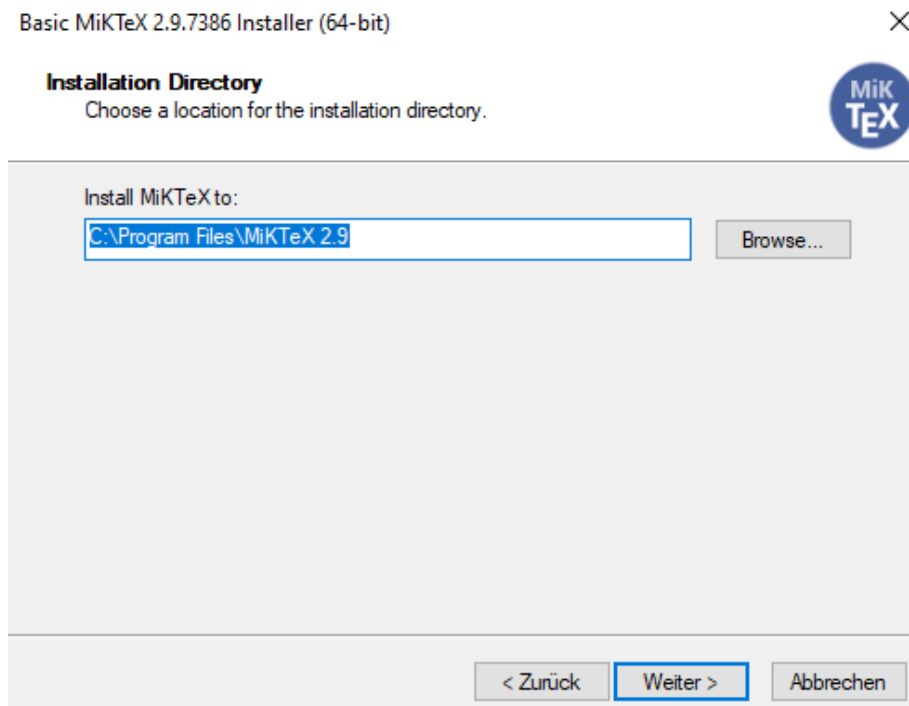
d. Maintain standard settings and click *„Weiter >"*

e. Click "Start"

Basic MiKTeX 2.9.7386 Installer (64-bit)   ×

Review
    Review the settings.

MiKTeX Setup Wizard has enough information to start the task. If you want to review or
change any of the settings, click Back. If you are satisfied with the settings, click Start.

Install basic packages to
        C:\Program Files\MiKTeX 2.9

Install MiKTeX for all users

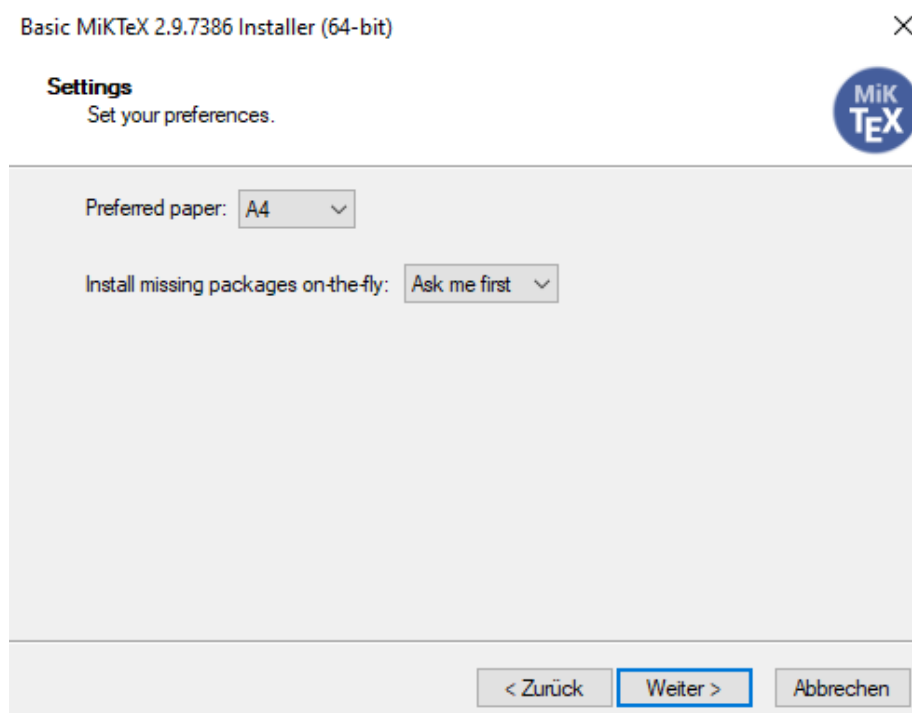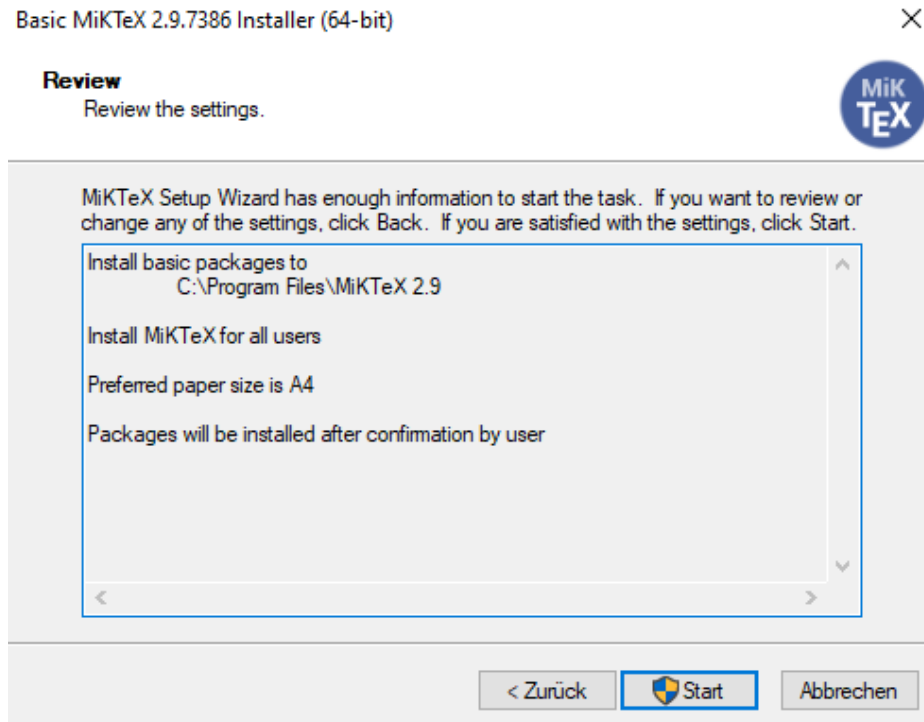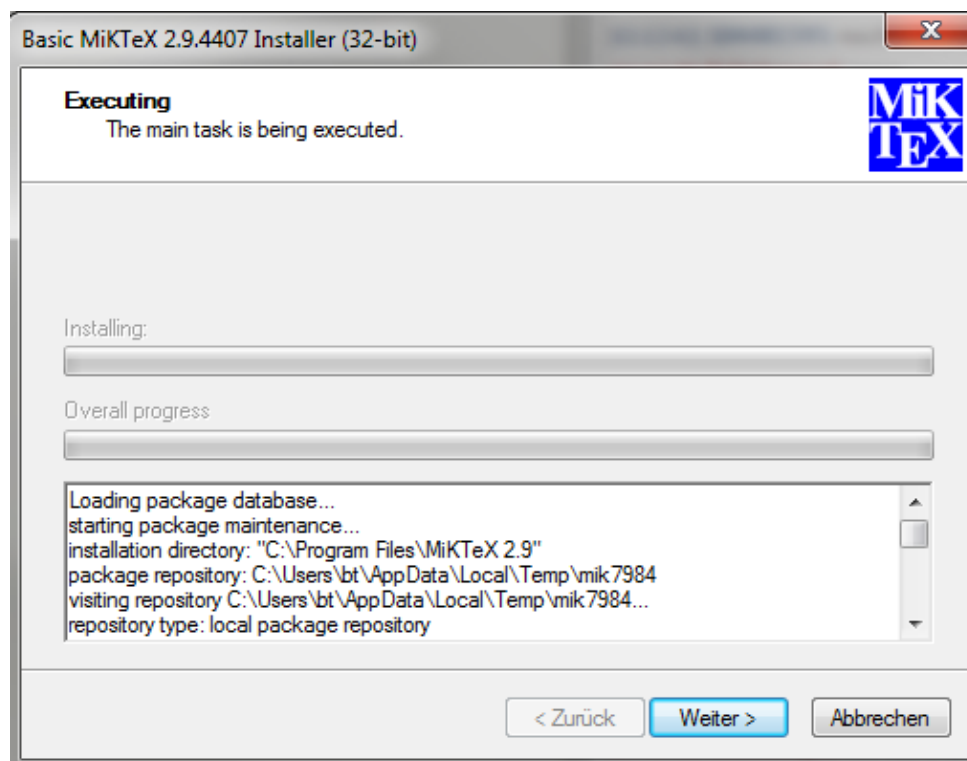Preferred paper size is A4

Packages will be installed after confirmation by user

                                        < Zurück   Start   Abbrechen

f. Click „*Weiter >* "

Basic MiKTeX 2.9.4407 Installer (32-bit)

Executing
    The main task is being executed.

Installing:

Overall progress:

Loading package database...
starting package maintenance...
installation directory: "C:\Program Files\MiKTeX 2.9"
package repository: C:\Users\bt\AppData\Local\Temp\mik7984
visiting repository C:\Users\bt\AppData\Local\Temp\mik7984...
repository type: local package repository
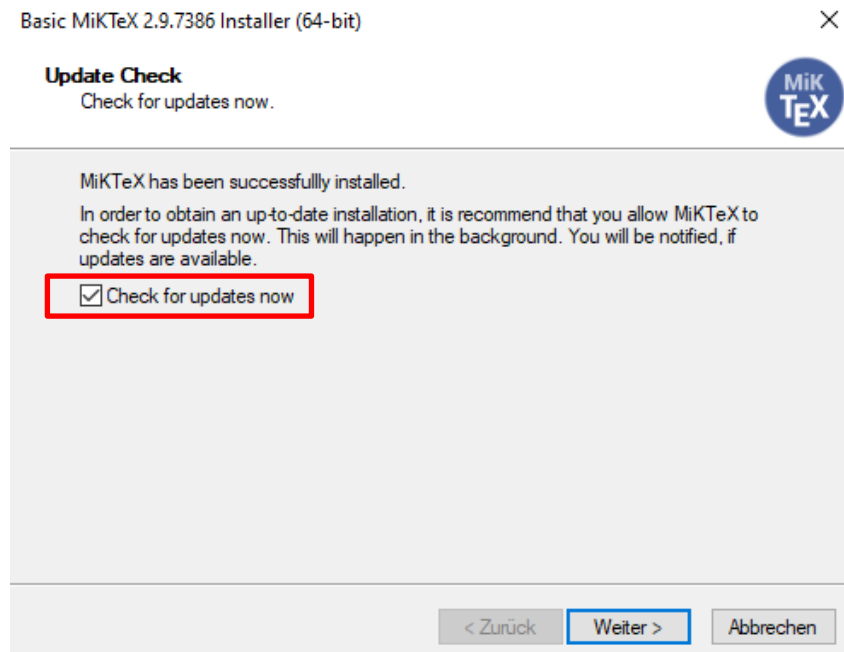
                                        < Zurück   Weiter >   Abbrechen

g. Check the box "Check for updates now" and press "Weiter"

h. Click „Close" to finish the installation

Installation of Texmaker

1. After succesful installation of MikTeX, the TeX editor "Texmaker" needs to be installed. Download the setup file on http://www.xm1math.net/texmaker/download.html . The newest version (5.0.4) is only available for 64-bit systems. If your system does not support 64-bit version download Texmaker 4.5 version

2. Execute the downloaded file and follow the instructions:

    a. Check „I accept the terms in the License Agreement" and press Install
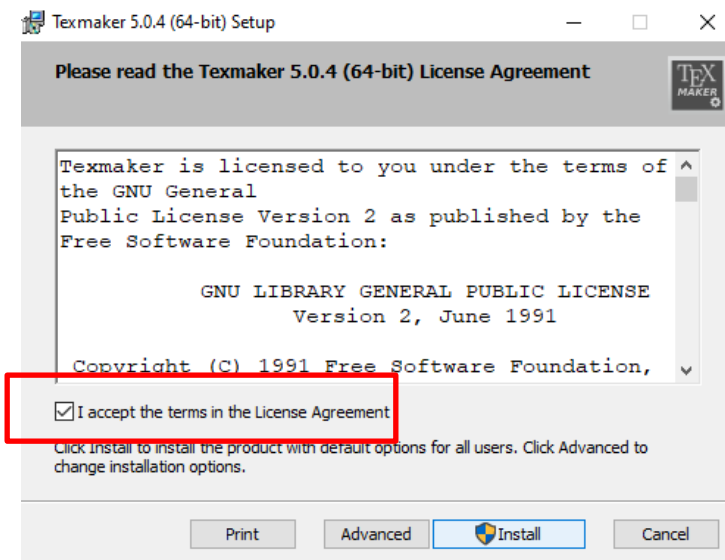
b. Check „Launch Texmaker when setup exits" and click Finish