INFORMATIK 2023
Arbeitskreis Open Source Software
Lars Quentin

Exercise 1 / 27.09.2023
Introduction to Git / AK-OSS
10 Minutes Total

Exercise Introduction

What to expect and what this sheet will cover.

Contents

Task 1: Set up your Environment (5 min)

Ensure that you have the proper environment for your future work!

Set up your Git environment

First, you need to install git. The instructions can be found at https://git-scm.com/downloads

Next, install the GitHub client.

- For Windows and macOS: https://desktop.github.com/
- For Linux (community maintained): https://github.com/shiftkey/desktop

Next, you have to configure your git. In a terminal, type the following:

1. `$ git config --global user.name "Your name"`
2. `$ git config --global user.email "youremail@example.com"`

For command line use, you'd also have to setup an SSH key, but its not needed for the GitHub client.

Lastly, log into your GitHub client.

Optional: Install a proper text editor

Ensure that you have a proper editor for this and the following exercises. We recommend:

- For beginners:
  - Windows: Notepad++
  - Linux: gedit (GNOME) oder kate (KDE)
  - macOS: TextEdit (pre-installed)
- For advanced users:
  - Visual Studio Code
  - Or whichever editor you already use...

Task 2: Create and Clone a GitHub repository (5 min)

Create a local GitHub repository

Here are the steps:

- Choose a folder with a few files, preferably text-files
  - Or just create some random text files.
- Initialize the repository using the GitHub client
  - `FILE -> New Repository`
- Add all files as changes; commit them.
- Publish repository using the `Publish Repository` button

Clone a remote GitHub repository

- Clone the following repo using the GitHub client: https://github.com/github/gitignore
- Play around, change a file and see the difference in the GitHub client!
- Write a commit message. Do the local commit.

Hints

- Since you do not have access, you cannot push your local changes