Universität Konstanz

Introduction to Computation for the Social Sciences

Assignment 1

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Please solve the exercises below and commit your solutions to our GitHub Classroom until Nov, 5th midnight. You can scope up to 10 points in this assignment. You will get individual feedback in your repository.

Exercise 1: Set up GitHub

a) Join our GitHub Classroom
Open your browser and navigate to the invitation URL *here*[1]. If you have not created a GitHub account yet, then create an account. Sign in to GitHub, authorize GitHub Classroom and accept the prompted assignment. This will create your own private repository that you can access via your GitHub account.

b) Associate your SSH Key with your GitHub Account
If you have not linked a SSH key with your GitHub account, do so by navigating to *Settings > SSH and GPG keys*. Here, create a new SSH key and paste in your public key. If you have not created your own SSH key pair, then have a look in the slides of *Exercise 01* again. This will enable you to work with your repositories without typing your username and password repeatedly.

c) Clone your Repository
In your GitHub account, you should find your new repository. Also, you should see the materials which have already been committed by us. For you to be able to work on these materials on your local machine, you must clone it. Therefore, on GitHub in your repository you click on *Clone or Download* and copy the link for SSH usage.
On your local machine, open your command line and navigate to the directory where you want to work on your assignments. If you are in the right place, then clone your repository with the link that you just copied.
If everything is set up correctly, then you should find your repository ready-to-be worked with on your local machine.

Exercise 2: Make First Changes in Your Own Repository

In your local repository, navigate to *assignment01 > solution*. There, create the file *solution01.py*. Therein write a Python script that prints the text below. Replace *<STUD_ID>* by your personal student id number.

```
Hello World. I am <STUD_ID>.
```

Exercise 3: Commit First Changes to GitHub

a) Add Changes

In your local repository, view the changes made in your repository and then add the files according to your wishes.

b) Commit Changes

After you have added the changes, please include these in a new commit in your repository.

c) Push Changes

After the previous steps, you are ready to push your commit with your changes to your personal repository on GitHub. Please make sure that your repository is up-to-date with your remotes before you push it.

Exercise 4: Apply for Admission at bwCloud Scope

In the following exercise sessions, we want to make use of virtual machines. These run on servers provided by Baden-Württemberg for all its members of science and research institutions. The service is called *bwCloud Scope* and gives all of you basic server resources for free. You can find more information about the service and instructions *here[2]*. Please follow their instructions and apply for admission at the service *bwCloud Scope*.

This task is a prerequisite for the exercise session on Nov, 20th.

[1] https://classroom.github.com/a/6fHesShG

[2] https://www.bw-cloud.org/en/first_steps