



İSTANBUL TECHNICAL UNIVERSITY

Department of Computer Engineering

BLG101E – Introduction to Information Systems

Applied Lab Session 3 – Git VCS

Before the session

1. Acquire a laptop on which you can work. Ensure that you have all of the software installed on it needed by the previous weeks' laboratories.
2. Ensure that you have attempted, to the best of your ability, all exercises in the previous lab handouts.

During the session

1. Get into groups of 3-4. Select one laptop for the group. The other laptops do not need to be on the desks if there is insufficient space for them.

Wherever you see a 📖 symbol:

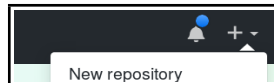
1. Note down your answer to the question.
2. Check and discuss your answer with your group or desk mates.
3. As a group, check your answer with the lab assistant.

Section A: Finish off Previous Labs

2. Establish any problems that you have had finishing the previous lab sessions and spend up to 20 minutes on solving them with your group members. You should already have worked on this during the week so do not spend too much time. It is up to you to catch up during the week.

Section B: Intro to git

3. Ensure that `git` is installed on your system. Try typing `git` into a terminal to see if it is installed. If it is not installed, the following command should install it on an Ubuntu or Mint type system: `sudo apt install git`
4. If you have not already, create an account on github.com. Log in to it.
5. Create a repository on github.com using the "New Repository" option in the top right corner of your github.com home page:



6. Make it an `empty`, `public` repository. Below I have created a repository called `funky-progs` but you may choose your own name. On the page that appears there will be a URL, something like:



7. Copy that URL and, in a terminal on your computer, **clone that repository** by typing:
`git clone https://github.com/damienjadeduff/funky-progs.git`
Obviously you will need to **change this URL for your one** (which would have become apparent in step 6 above). You may get a warning saying that you have cloned an empty repository – that's OK.
8. Use `git status` to see the your repository's status. Type `git log` to see the history.
9. Add 3 text files of your choice to your repository using the `git add` command. If you cannot remember how, look for online resources. *Do not commit them yet.*
10. Use the `git status` command to see the status of the repository. 📖 *What has changed in its output since the last time you ran this command?*
11. Now commit the 3 text files using the `git commit` command. If you cannot remember how, look for online resources.
12. Use the `git status` command to see the status of the repository. 📖 *What has changed in its output since the last time you ran this command?*
13. Use the `git log` command to see the commit history.
14. Add and commit another file (or modify one then add and commit it), and use `git log` or `gitk` to see the commit history again.
15. Use `git push` to send the changes to github.com and check the commit log in github.com.
16. If you like, you can delete your repo from github.com. If you have a student or educational account you can instead choose to make it private.