

# Version Control: git

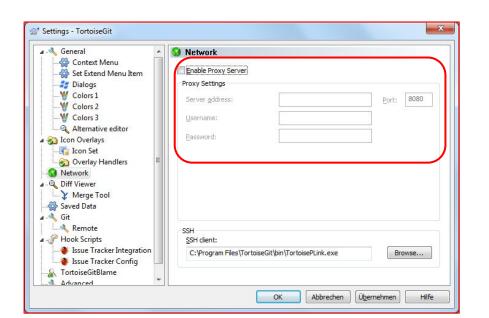
#### Outline

#### Today:

- git knowledge test (12 questions, 10 minutes)
- cool features of github.com
- working with remote: clone, push and pull

## proxy setup: TortoiseGit -> Settings->Network

If you tried and FAILED to clone a remote repository on github.com, you need to setup proxy



- Check "Enable Proxy Server button"
- Server address: proxydid.cardano.pv.it
- Port: 8080
- Username: your school username
- Password: your school password

1. Hosts many open source projects:

Currently trending repos (can filter by language)
<a href="https://github.com/trending">https://github.com/trending</a>
Javascript frameworks: AngularJS is here
<a href="https://github.com/showcases/front-end-javascript-frameworks">https://github.com/showcases/front-end-javascript-frameworks</a>

Just a page for cool repos (including Swift by Apple) <a href="https://github.com/showcases">https://github.com/showcases</a>

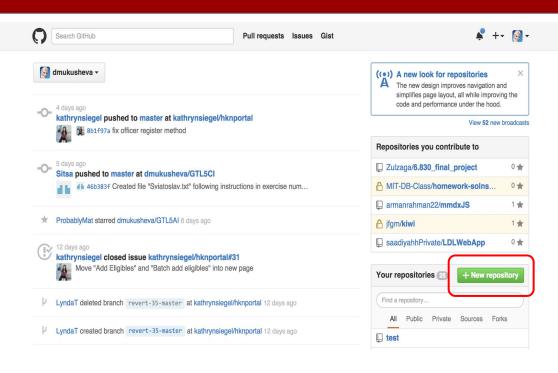
2. You can browse your project files. Git also provides syntax highlighting for more than 200 programming languages.

- 3. It's very easy to continuously work on the larger projects using:
- issues problems with your code
- labels tells **type** of the problem
- milestones sets deadlines for the problems

- 4. You can create and join organizations:
- teamwork
- regulate permissions
- have different member roles: owner, billing manager, team maintainer, and so on

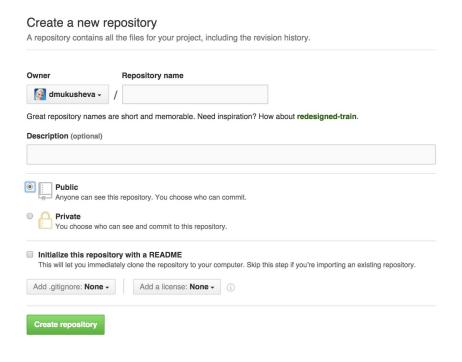
Great for start ups!

## Creating a new empty repository



- Go to github.com
- Sign In
- On the right panel, select "New Repository"

#### Creating a new empty repository



- Choose a repo name
- Put a good description
- Choose "Public"
   (you have to pay for
   "Private")
- Choose
   Initialize ... with a README
- Create repository!

# Creating a new empty repository

You can **clone** your own repository and start working on your project!

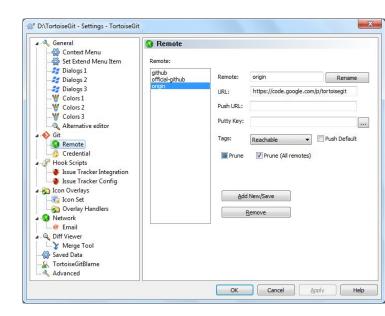
But what if you have a local repo with existing project and want to upload it on github?

## Uploading an existing repository to github

- On github.com create a new repository as was described in previous slides.
- Copy its url: https://github.com/username/reponame.git
- DO NOT CLONE IT YET!

### Uploading an existing repository to github

- In your local repository, choose: TortoiseGit -> Settings
- Select Git->Remote
- As URL, insert a URL of your github.com repo address
- Click on "Add/Save"
- Apply->Ok
- Now you can push it!



# Exercise 4 (from last week)

- Create a new folder, name it "remote\_repo"
- Use "Git Clone" option and specify the URL: <a href="https://github.com/dmukusheva/GTL5BI.git">https://github.com/dmukusheva/GTL5BI.git</a>
- In your copy of the repo, create a new file, name is with your name: e.g., dana.txt. Write something inside.
- Add, commit and push your changes.
- Once everybody is finished, pull the changes.

#### Exercise 5

- Create a local repo on your computer.
- Add and commit a new file.
- On github.com, create a new repository.
- Upload your local repository to a github repository by setting a remote in your local repo settings.
- If you have time, try creating new issues, labels for them and milestones.