



Using Github

Github for What?

- Online project hosting site.
- "Remote" git repository with access control
- Issue Tracking
- Documentation and web pages (github.io)
- Integrates with other services
 - Continuous Integration, e.g. CircleCI

Github in this Course

- Submit some labs and quizzes
- Submit Programming Project
- Used for **everything** in OOP2.

What to do

1. Create a Github Account

- Put your **REAL NAME** in profile
- Add a **PHOTO** that **clearly** shows **your face**
- Include a public **Email**. Prefer KU-Gmail
- Write a **short profile** about yourself

2. Sign-up form: <https://goo.gl/cwrBbW>

3. Receive an e-mail invitation to join OOP2018

4. Click to join Github Organization.

Github Account

Students in last year's OOP course.

1. Real name
2. Photo
3. Email
4. Description of you



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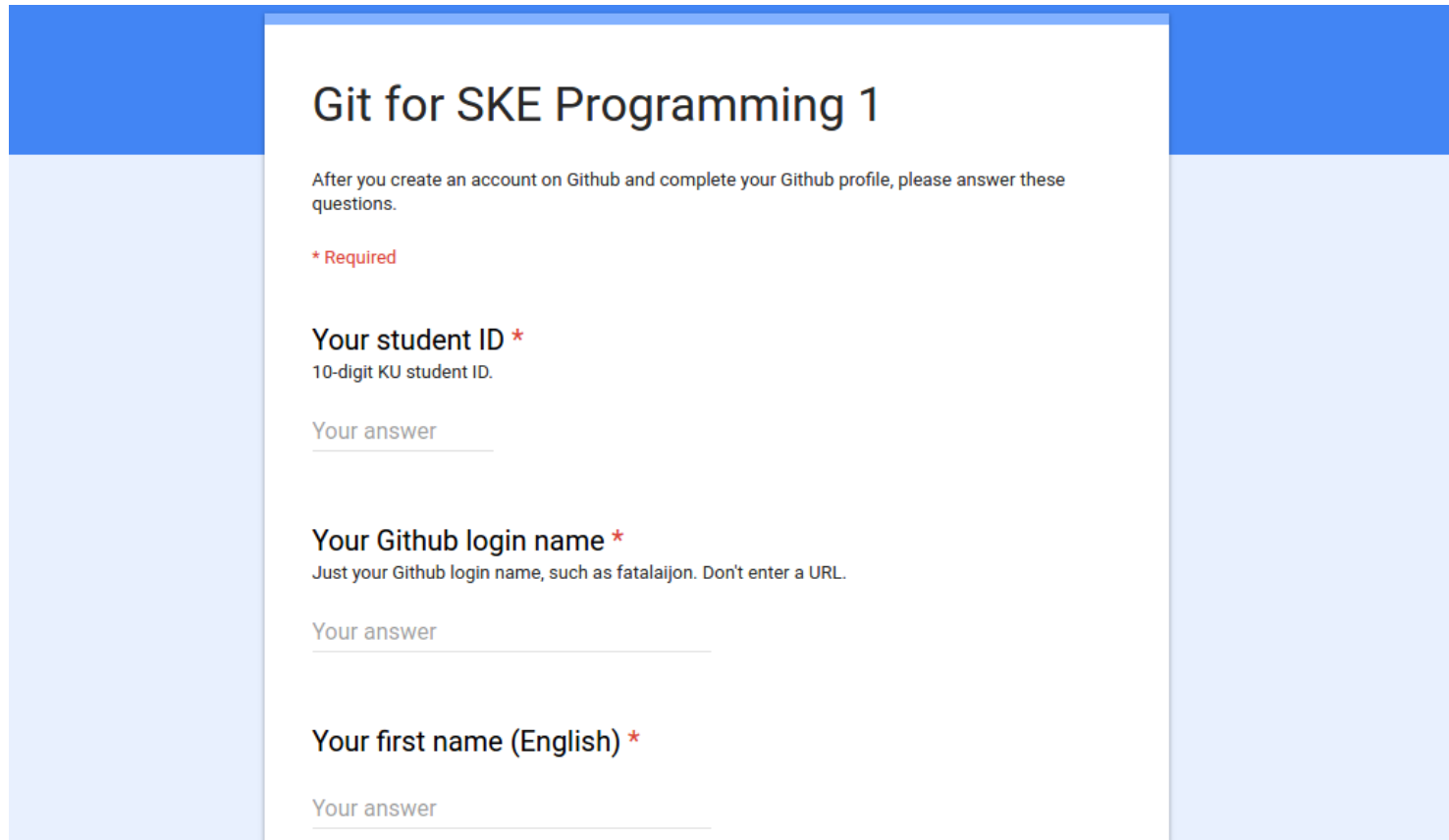
🌐 <https://kykungz.github.io/>

Complete a sign-up form:

<https://goo.gl/cwrBbW>

Tell us your Github login!

Answer some simple questions about **git**.



The image shows a screenshot of a web form titled "Git for SKE Programming 1". The form is set against a light blue background with a darker blue header. The text on the form reads: "After you create an account on Github and complete your Github profile, please answer these questions." Below this, there is a red asterisk and the word "Required". The first question is "Your student ID *", with a subtext "10-digit KU student ID." and a text input field labeled "Your answer". The second question is "Your Github login name *", with a subtext "Just your Github login name, such as fatalaijon. Don't enter a URL." and a text input field labeled "Your answer". The third question is "Your first name (English) *", with a text input field labeled "Your answer".

Git for SKE Programming 1

After you create an account on Github and complete your Github profile, please answer these questions.

*** Required**

Your student ID *
10-digit KU student ID.

Your answer

Your Github login name *
Just your Github login name, such as fatalaijon. Don't enter a URL.

Your answer

Your first name (English) *

Your answer



How to Use Github

2 Situations + Special Case

Case 1: *You already have project code on your local computer.*

Case 2: *Project exists on Github. You want to copy it to your computer.*

Special Case:

Case 3: *A new project (no files yet).*

Case 1: Starting from Local Project

You already have a project on your computer

1. Create a **local** "git" repository.

```
cmd> git init
```

```
cmd> git add .gitignore src
```

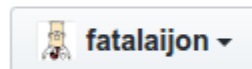
```
cmd> git commit -m "initial code checkin"
```

2. Create an **empty** repo on Github.

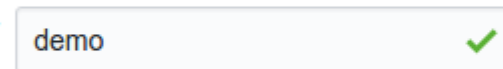
Create a new repository

A repository contains all the files for your project, including the revision history.

Owner



Repository name



Great repository names are short and memorable. Need inspiration? How about **symmetrical**


Description (optional)

Demonstration project

Case 1: adding Github as remote

3. Copy the URL of new Github repository (https or ssh).

Quick setup — if you've done this kind of thing before

or **HTTPS** **SSH** `https://github.com/fatalaijon/demo.git` 

We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

4. In your local project, add Github as a remote repository named "origin":

```
cmd> git remote add origin  
      https://github.com/fatalaijon/demo.git
```

5. Copy the local repository to Github

```
cmd> git push -u origin master
```

You only need **"-u origin master"** the first time you push to Github. Next time, just type **"git push"**.

Case 2: Starting from Github

A project already exists on Github. You want to "clone" it your local computer to do work.

1. Get the Github project URL

`https://github.com/fatalaijon/demo.git`

or: go to project on Github and click on
then copy the URL.



Clone or download ▾

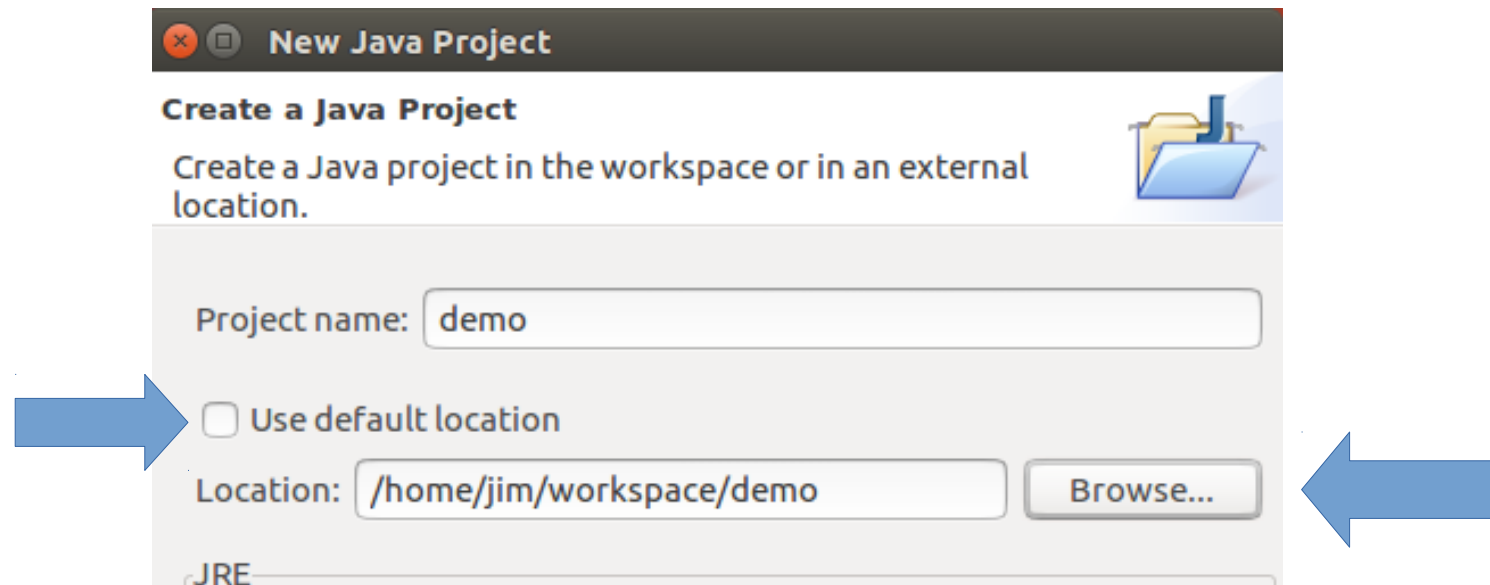
2. In your workspace, type:

`cmd> git clone https://github.com/...`

NOTE: "git clone" creates a **new directory** for the repository (named demo). If the directory already exists, clone **won't work**.

Case 2: Finishing up

3. Start your IDE and create a new project using the code in the directory you just cloned.



That's it!

Github is automatically the remote "origin".
Just `git push` your committed work to github.

You can use a different project name

The name of **local directory** containing the **clone** can be **different** from the Github repository name.

1) Rename it yourself.

or

2) Specify directory when you "clone":

```
cmd> git clone remote-url myproject
```

```
cmd> git clone https://github.com/fatalai  
jon/demo.git mydemo
```

Comparison of 2 Cases

Git Workflow

After you have a repository + Github, what do you do?

Assignment

<https://cpske.github.io/programming1/git/git-assignment>