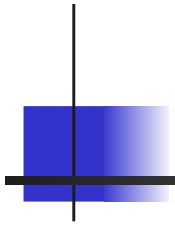

Using Github

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

Jirayu Laungwilawan
JirayuL

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Block or report user

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Block or report user

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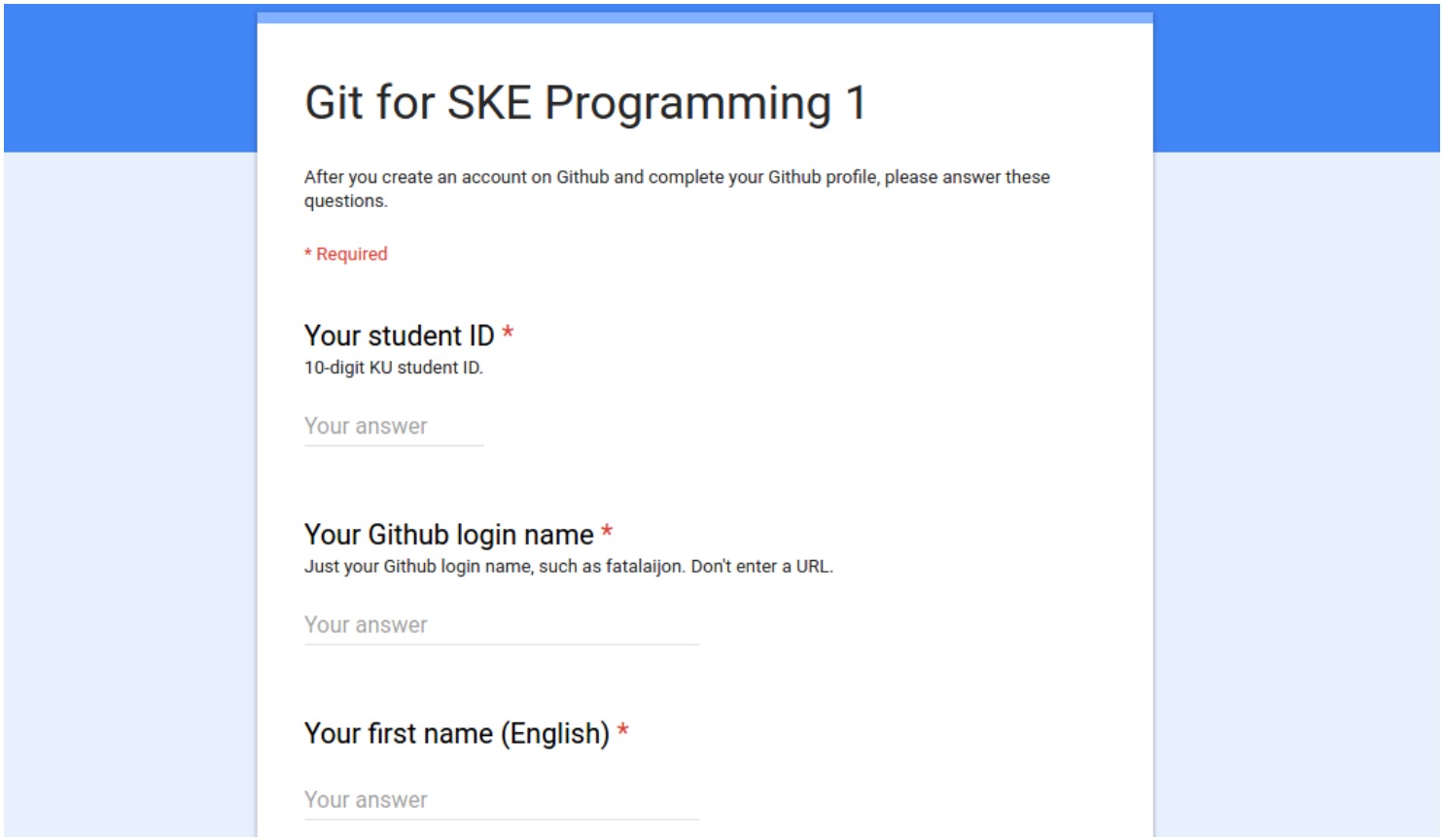
https://kykungz.github.io/

Complete a sign-up form:

`https://goo.gl/cwrBbW`

Tell us your Github login!

Answer some simple questions about **`git`**.



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

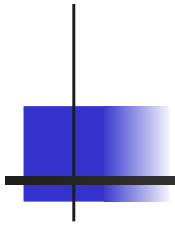
Your Github login name *

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).*

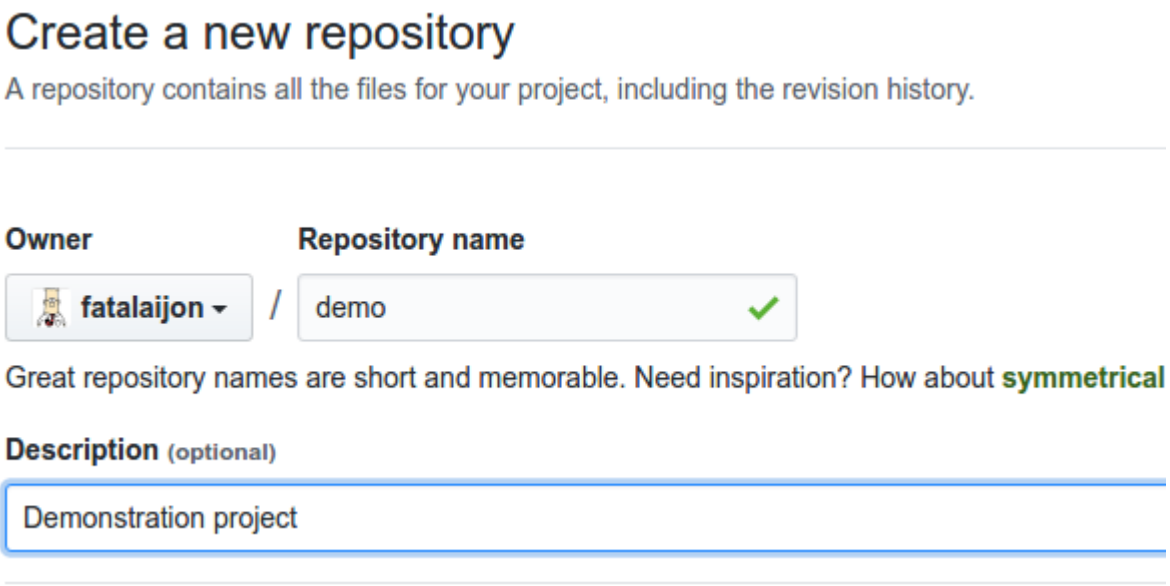
Case 1: Starting from Local Project

You already have a project on your computer

1. Create a local "git" repository.

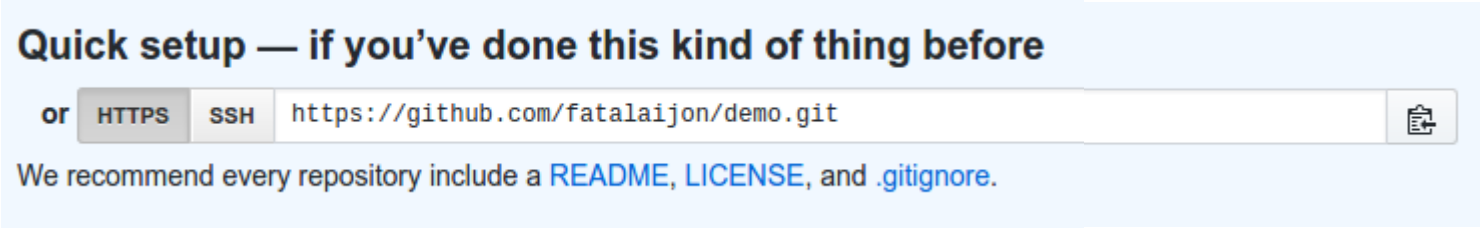
```
cmd> git init
cmd> git add .gitignore src
cmd> git commit -m "initial code checkin"
```

2. Create an empty repo on Github.



Case 1: adding Github as remote

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



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.

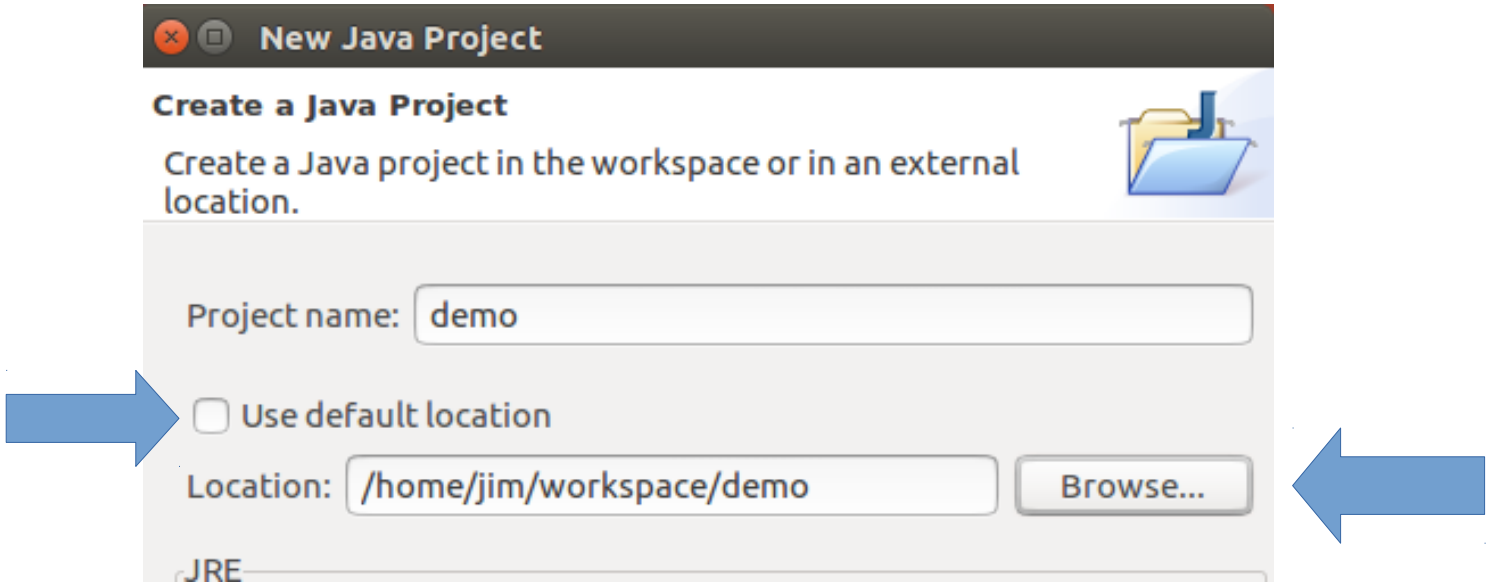
2. In your workspace, type:

   `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 commited 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/fatalaijon/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