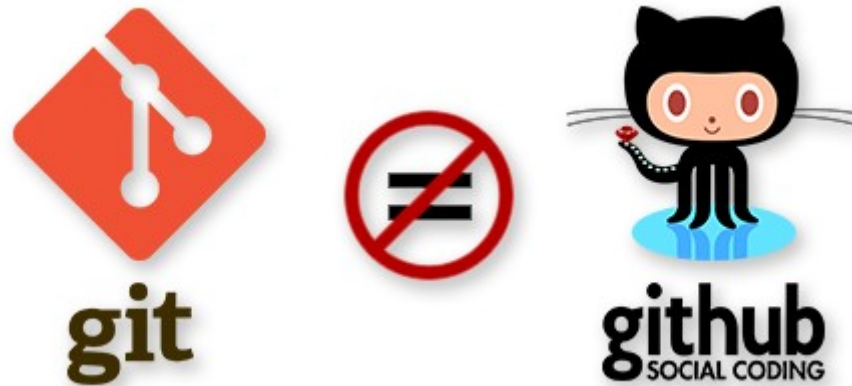


A hitchhikers guide to “Git Classroom”



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Jan. 25th, 2017
ZICE 17 – University of Zürich

An example based on the user name **simon-edu**.

Wherever this user pops up in the slides, you need to replace it by your OWN



!!! Attention !!!



In this slide deck, we show step by step how:

I. Classroom: to log the first time into the git classroom ZICE 17.

II. Synchronize: to regularly fetch the most recent slides from the repository.

NOTE: the example is based on the user name **simon-edu**

is provided to show on how to synchronize the repository from ZICE 17.

Wherever this user pops up, you need to replace it with your OWN USER NAME.

I. How to get onto the Classroom



0. Step: Classroom assignment invitation

- At some point, you received in an email a link similar to the one below.

<https://classroom.github.com/assignment-invitations/2dcd7145a43f8b7daba3e77fa84d88cb>

- Click on it.
- This generates a fork from the “master repository”.

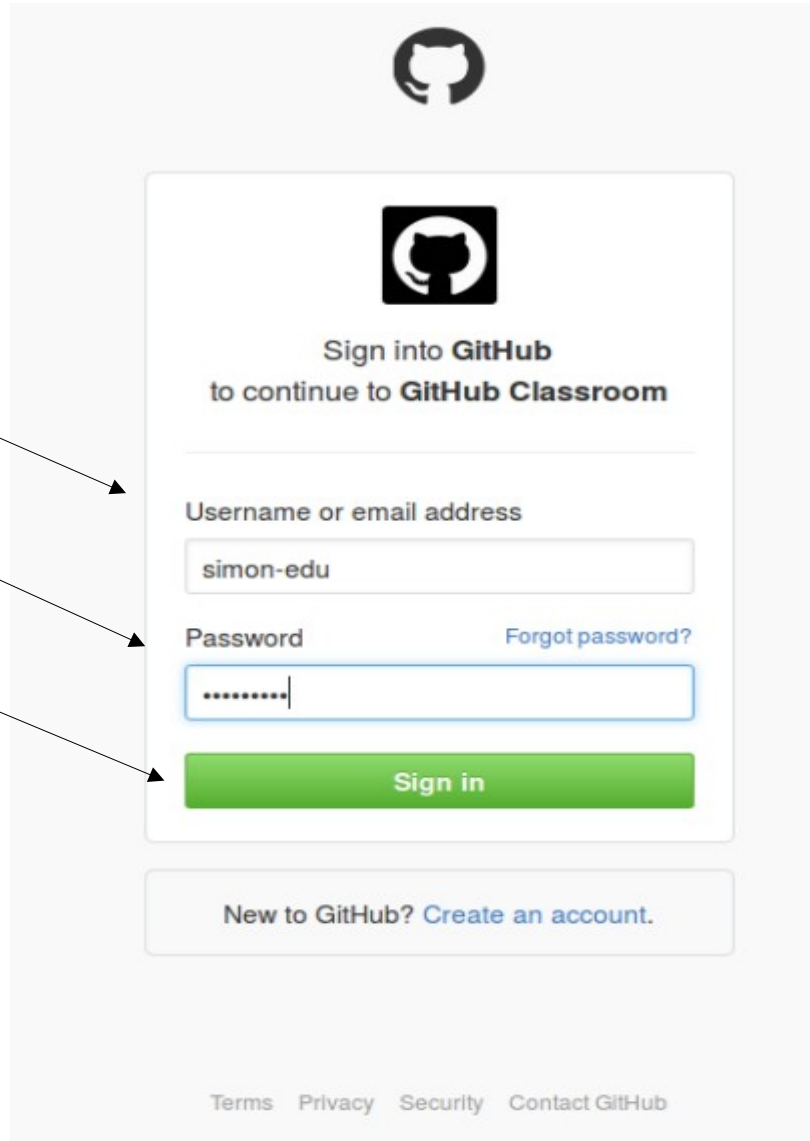
1. Step: Accept assignment

Fill in

a) **YOUR** user name

b) password

c) sign in



The image shows the GitHub sign-in interface. At the top is the GitHub logo. Below it is a white box containing the GitHub logo, the text "Sign into GitHub to continue to GitHub Classroom", and the sign-in form. The form has two input fields: "Username or email address" with the value "simon-edu" and "Password" with masked characters ".....". A "Forgot password?" link is next to the password field. Below the fields is a green "Sign in" button. At the bottom of the white box is a link "New to GitHub? Create an account.". At the very bottom of the page are links for "Terms", "Privacy", "Security", and "Contact GitHub".

Sign into GitHub
to continue to GitHub Classroom

Username or email address
simon-edu

Password [Forgot password?](#)
.....

Sign in

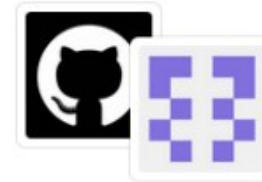
New to GitHub? [Create an account.](#)

[Terms](#) [Privacy](#) [Security](#) [Contact GitHub](#)

2. Authorize application

Authorize application

GitHub Classroom by @github would like permission to access your account



Review permissions



Personal user data

Email addresses (read-only)



Authorize application

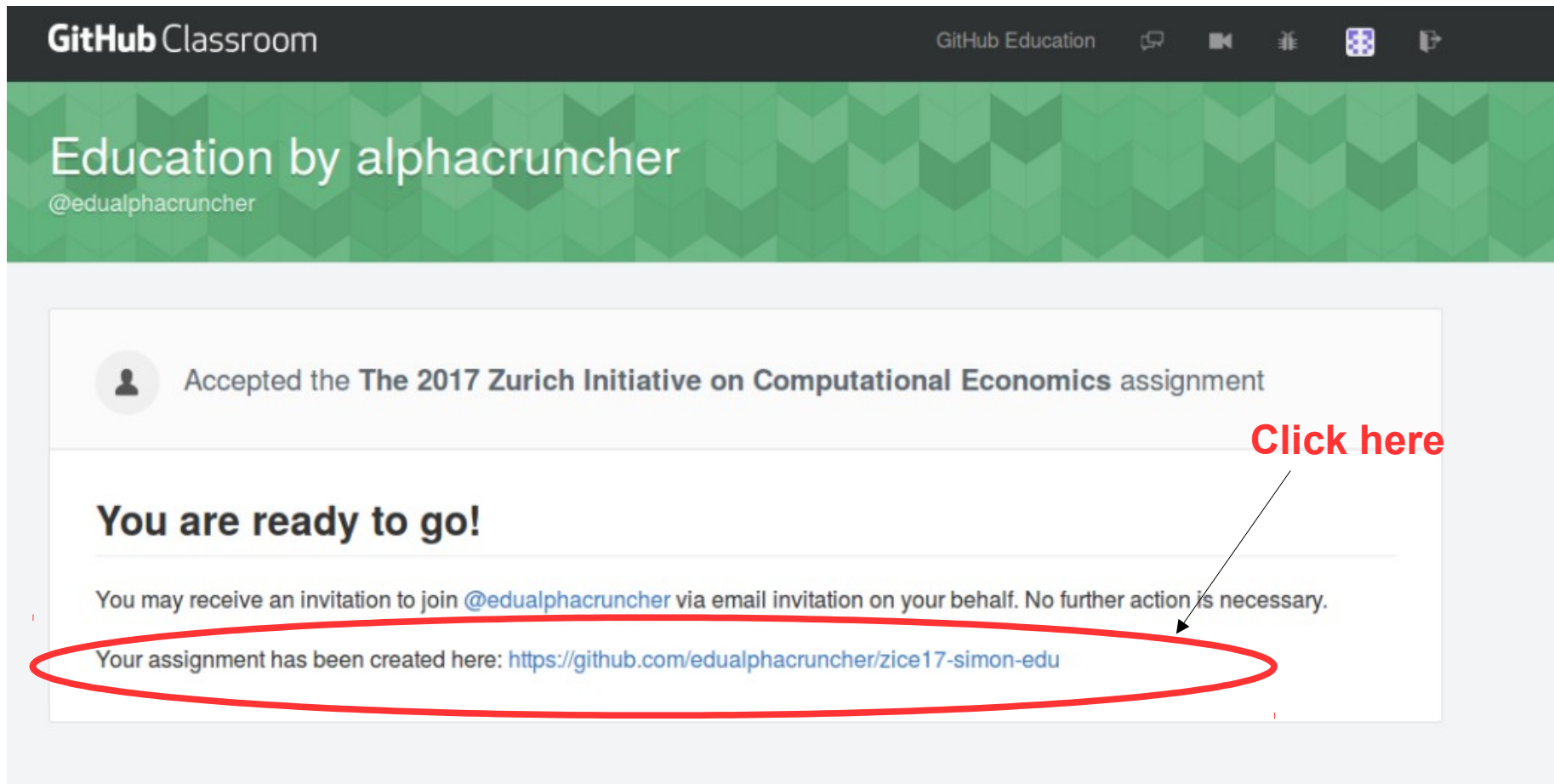
GitHub Classroom

GitHub Classroom automates repository creation and access control, making it easy to distribute starter code and collect assignments on GitHub.

[Visit application's website](#)

[Learn more about OAuth](#)

3. Go to your private repository



The screenshot shows the GitHub Classroom interface. At the top, there's a dark header with "GitHub Classroom" on the left and "GitHub Education" on the right, followed by several icons. Below the header is a green banner with the text "Education by alphacruncher" and "@edualphacruncher". The main content area is white and contains a notification card. The card has a user icon and the text "Accepted the The 2017 Zurich Initiative on Computational Economics assignment". Below this, it says "You are ready to go!". Further down, it states "You may receive an invitation to join @edualphacruncher via email invitation on your behalf. No further action is necessary." At the bottom of the card, it says "Your assignment has been created here: <https://github.com/edualphacruncher/zice17-simon-edu>". A red oval highlights the URL, and a red arrow points to it with the text "Click here".

GitHub Classroom

GitHub Education

Education by alphacruncher
@edualphacruncher

Accepted the The 2017 Zurich Initiative on Computational Economics assignment

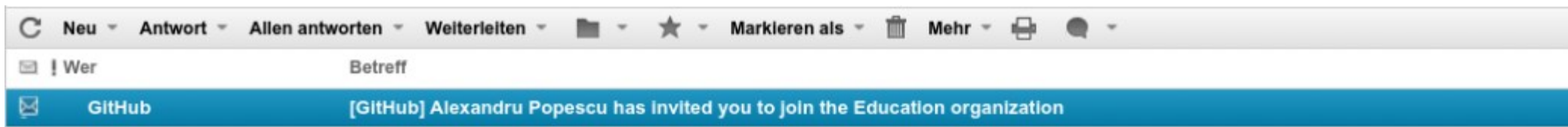
You are ready to go!

You may receive an invitation to join @edualphacruncher via email invitation on your behalf. No further action is necessary.

Your assignment has been created here: <https://github.com/edualphacruncher/zice17-simon-edu>

Click here

4. Invitation to the “Education” organization via Email similar to the one below



5. Click on Link in the Email

[GitHub] Alexandru Popescu has invited you to join the Education organization

GitHub

An: simon-edu

GitHub



Alexandru Popescu has invited you to join the Education organization

Hi **simon-edu**!

Alexandru Popescu has invited you to join the Education organization on GitHub. Head over to <https://github.com/edualphacruncher> to check out Education's profile.

Click here

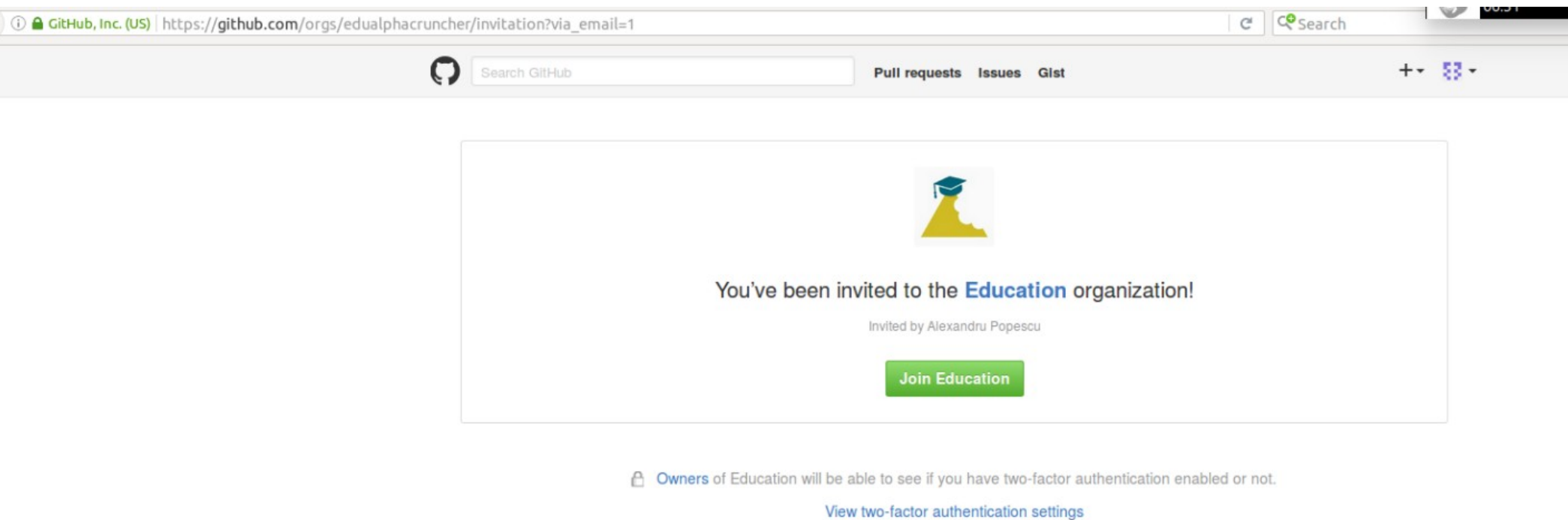


[Join Education](#)

Note: If you get a 404 page, make sure you're signed in as **simon-edu**. You can also accept the invitation by visiting the organization page directly at <https://github.com/edualphacruncher>.

Button not working? Paste the following link into your browser:
https://github.com/orgs/edualphacruncher/invitation?via_email=1

6. On Github – join education



7. This is where your browser goes to



Education
by alphacruncher

Repositories

People 50

Teams 2

Projects 0

Search repositories...

Type: All ▾

Language: All ▾

Customize pinned repositories

New

zice17-simon-edu Private

zice17-simon-edu created by GitHub Classroom

● C++ Updated 4 minutes ago

Fork (click here)

zice17 Private

Zurich Initiative on Computational Economics

● C++ Updated 2 hours ago

Origin (Master)

public

Assets for public pages

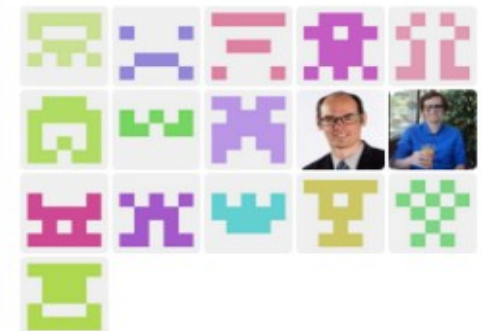
Updated on 25 Oct 2016

Top languages

● C++

People

50 >



8. What you see in your “fork”

The screenshot shows a GitHub repository page for 'zice17-simon-edu' by 'edualphacruncher'. The repository is private and has 4 watchers, 0 stars, and 0 forks. The repository was created by GitHub Classroom. It has 33 commits, 1 branch, 0 releases, and 5 contributors. The latest commit is by 'pelsenha' 2 hours ago. The repository contains several files and folders, including 'ZICE17_info', 'lectures_eisenhauer', 'munson_wild', 'simon', 'README.md', and 'appint.pdf'. The 'README.md' file is selected, showing the title 'Zurich Initiative on Computational Economics' and the text: 'The Zurich Center for Computational Financial Economics (ZCCFE) will hold the 2017 Zurich Initiative on Computational Economics (ZICE17) at the University of Zurich, Switzerland, from Tuesday, 24 January to Wednesday, 1 February 2017.'

edualphacruncher / zice17-simon-edu Private

Watch 4 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

zice17-simon-edu created by GitHub Classroom Edit

33 commits 1 branch 0 releases 5 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

pelsenha edits Latest commit 1e01ed7 2 hours ago

| File | Commit Message | Time Ago |
|---------------------|---|--------------|
| ZICE17_info | Update README.md | 5 days ago |
| lectures_eisenhauer | edits | 2 hours ago |
| munson_wild | Correct slides for problems that were found. | 2 hours ago |
| simon | Merge branch 'master' of https://github.com/edualphacruncher/zice17 | 9 hours ago |
| README.md | Update README.md | 17 hours ago |
| appint.pdf | Add files via upload | 7 hours ago |

README.md

Zurich Initiative on Computational Economics

The Zurich Center for Computational Financial Economics (ZCCFE) will hold the 2017 Zurich Initiative on Computational Economics (ZICE17) at the University of Zurich, Switzerland, from Tuesday, 24 January to Wednesday, 1 February 2017.

II. Synchronize your repository



1. Get the URL to clone

edualphacruncher / zice17-simon-edu Private

Watch 4 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

zice17-simon-edu created by GitHub Classroom

Edit

33 commits

1 branch

0 releases

5 contributors

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

pelsenha edits

URL to copy to your clipboard

ZICE17_info Update README.md

lectures_eisenhauer edits

munson_wild Correct slides for problems that were found.

simon Merge branch 'master' of https://github.com/edualphacruncher/zice17

9 hours ago

README.md Update README.md

17 hours ago

appint.pdf Add files via upload

7 hours ago

README.md

Clone with HTTPS

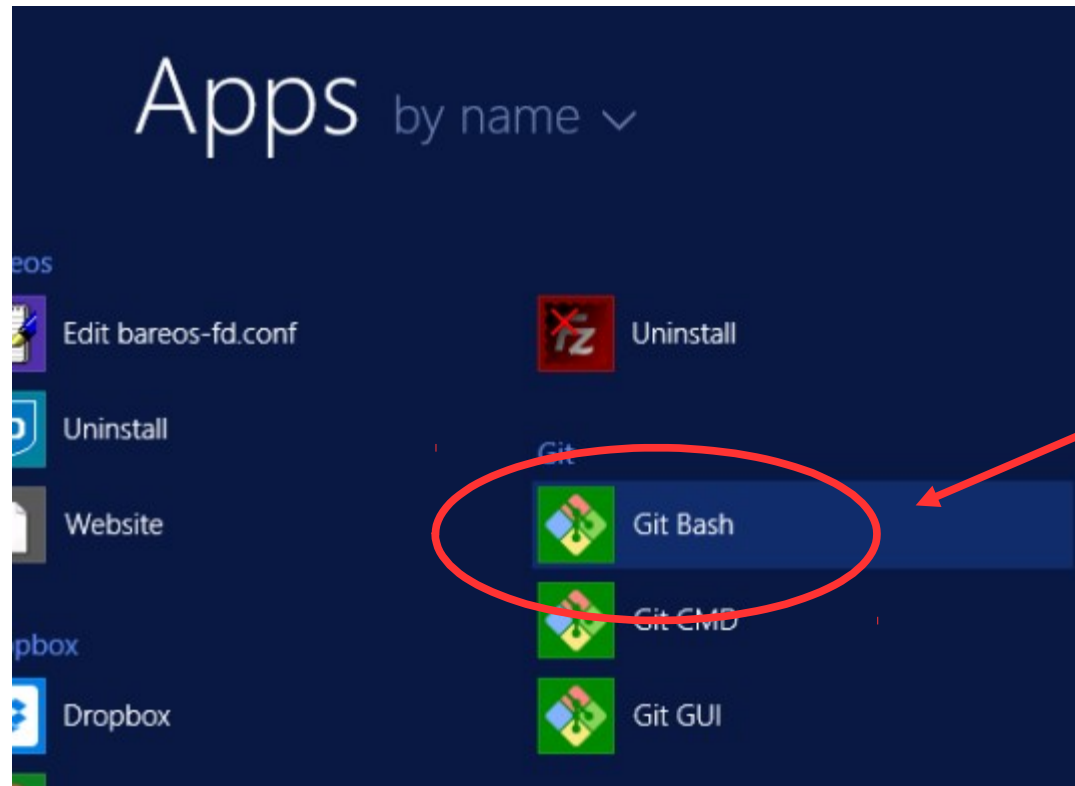
Use SSH

Use Git or checkout with SVN using the web URL.

https://github.com/edualphacruncher/zice17

Download ZIP

2. Log onto Alphacruncher

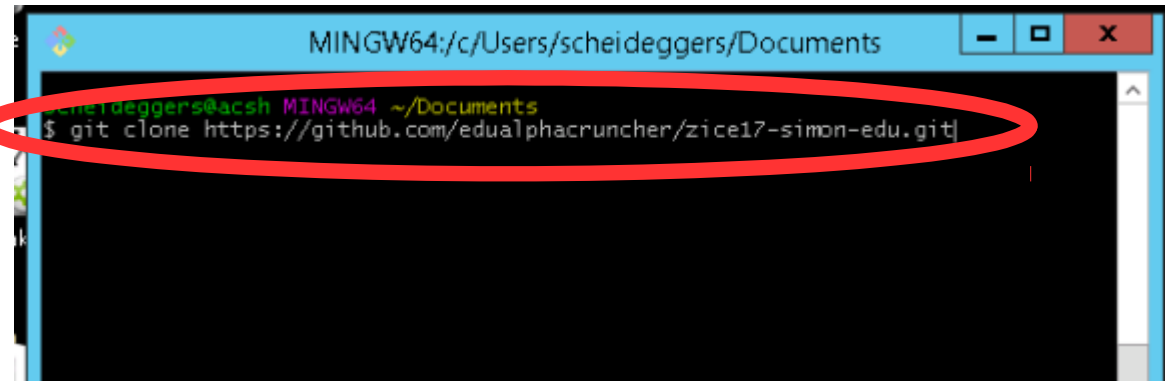


3. Git bash – git clone

Change directory
to **/Documents** by typing this command

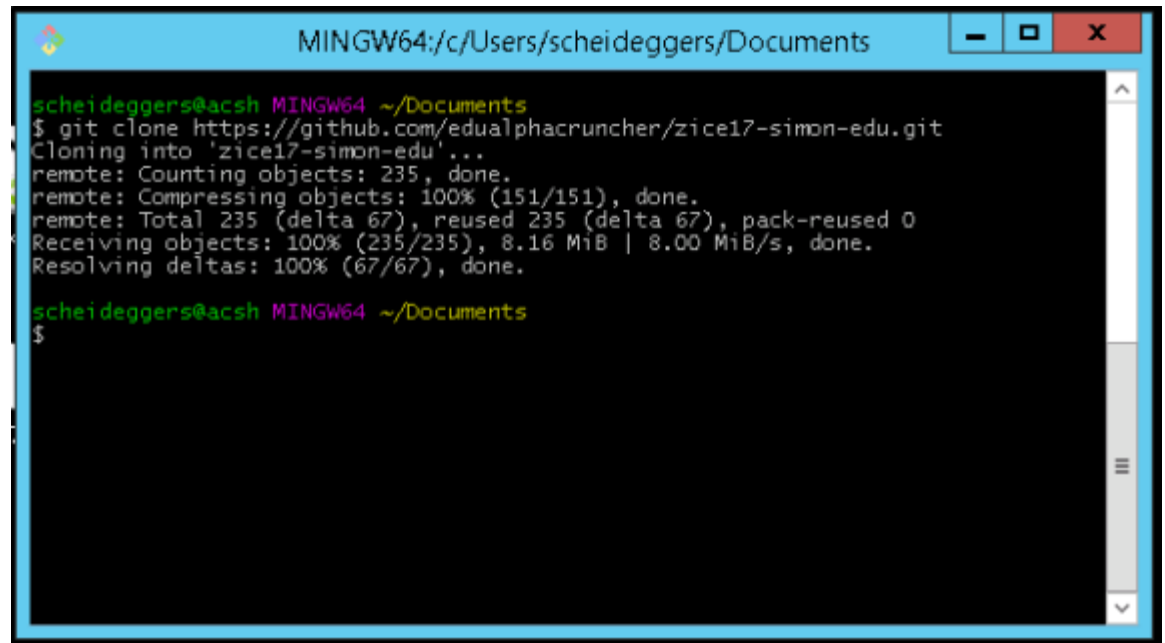
A terminal window with a black background and green text. The prompt is 'scheideggers@acsh MINGW64 ~'. The command '\$ cd Documents/' is entered and highlighted with a red oval. The next line shows the prompt has changed to 'scheideggers@acsh MINGW64 ~/Documents'.

Clone the repository!
Take the address that you copied into your clipboard

A terminal window titled 'MINGW64:/c/Users/scheideggers/Documents'. The prompt is 'scheideggers@acsh MINGW64 ~/Documents'. The command '\$ git clone https://github.com/edualphacruncher/zice17-simon-edu.git' is entered and highlighted with a red oval. An arrow from the text 'Take the address that you copied into your clipboard' points to the URL in the command.

4. Git clone (2)

This is what you see while cloning:

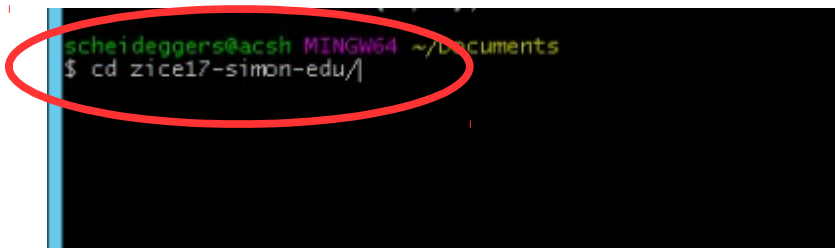


```
MINGW64:/c:/Users/scheideggers/Documents
scheideggers@acsh MINGW64 ~/Documents
$ git clone https://github.com/edualphacruncher/zice17-simon-edu.git
Cloning into 'zice17-simon-edu'...
remote: Counting objects: 235, done.
remote: Compressing objects: 100% (151/151), done.
remote: Total 235 (delta 67), reused 235 (delta 67), pack-reused 0
Receiving objects: 100% (235/235), 8.16 MiB | 8.00 MiB/s, done.
Resolving deltas: 100% (67/67), done.

scheideggers@acsh MINGW64 ~/Documents
$
```

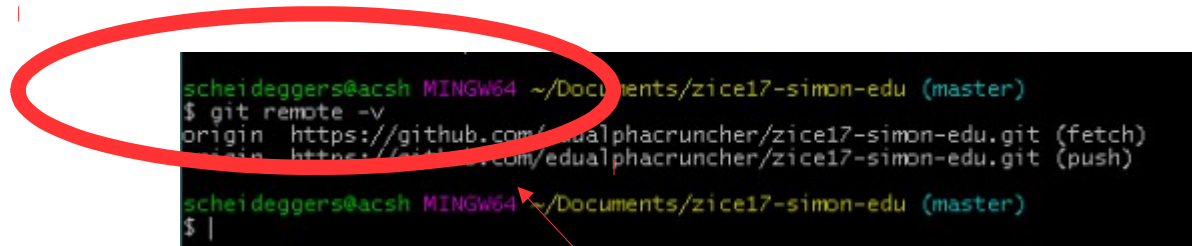
Change directory by
Typing:

cd zice17-simon-edu



```
scheideggers@acsh MINGW64 ~/Documents
$ cd zice17-simon-edu/
```

5. List the current configured remote repository for your fork

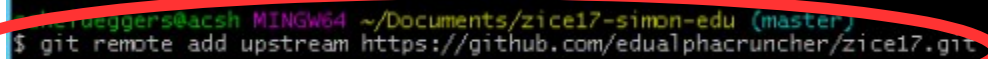


```
scheideggers@acsh MINGW64 ~/Documents/zice17-simon-edu (master)
$ git remote -v
origin https://github.com/edualphacruncher/zice17-simon-edu.git (fetch)
origin https://github.com/edualphacruncher/zice17-simon-edu.git (push)
scheideggers@acsh MINGW64 ~/Documents/zice17-simon-edu (master)
$ |
```

Type this command: **git remote -v**

6. Specify the original repository as a new remote upstream repository for your fork

Set upstream



```
scheideggers@acsh MINGW64 ~/Documents/zice17-simon-edu (master)  
$ git remote add upstream https://github.com/edualphacruncher/zice17.git
```

A terminal window showing the command to add an upstream remote. The command is highlighted with a red oval, and an arrow points from the text 'Set upstream' to it.

Check that upstream is set correctly

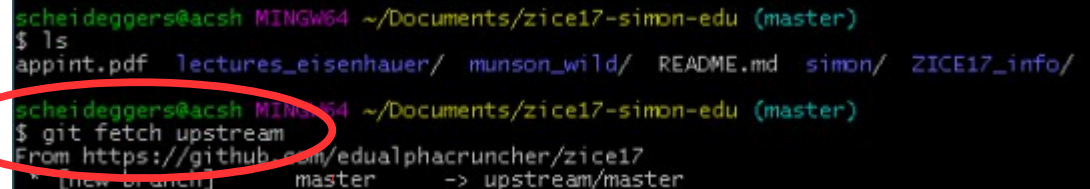


```
scheideggers@acsh MINGW64 ~/Documents/zice17-simon-edu (master)  
$ git remote -v  
origin https://github.com/edualphacruncher/zice17-simon-edu.git (fetch)  
origin https://github.com/edualphacruncher/zice17-simon-edu.git (push)  
upstream https://github.com/edualphacruncher/zice17.git (fetch)  
upstream https://github.com/edualphacruncher/zice17.git (push)
```

A terminal window showing the output of the 'git remote -v' command. The command is highlighted with a red oval, and an arrow points from the text 'Check that upstream is set correctly' to it.

Fetch upstream by typing:

git fetch upstream

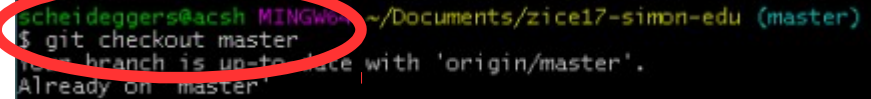


```
scheideggers@acsh MINGW64 ~/Documents/zice17-simon-edu (master)  
$ ls  
appint.pdf lectures_eisenbauer/ munson_wild/ README.md simon/ ZICE17_info/  
scheideggers@acsh MINGW64 ~/Documents/zice17-simon-edu (master)  
$ git fetch upstream  
From https://github.com/edualphacruncher/zice17  
* [new branch] master -> upstream/master
```

A terminal window showing the output of the 'git fetch upstream' command. The command is highlighted with a red oval, and an arrow points from the text 'git fetch upstream' to it.

7. Configuring a remote for the fork

Type this command: git checkout master



```
scheideggers@acsh MINGW64 ~/Documents/zice17-simon-edu (master)
$ git checkout master
Note: branch is up-to-date with 'origin/master'.
Already on 'master'
```

Type this command: git merge upstream/master



```
scheideggers@acsh MINGW64 ~/Documents/zice17-simon-edu (master)
$ git merge upstream/master
Already up-to-date.
```

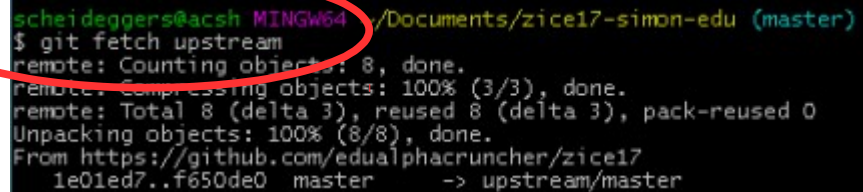
Now you are set configuring your fork

8. How to sync fork

To regularly get the most recent slides, you need to repeat the following 3 commands:

1. Type this command

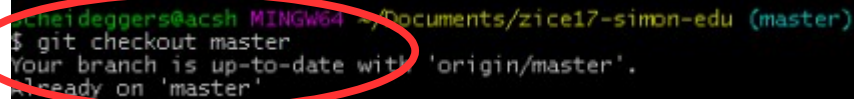
git fetch upstream



```
scheideggers@acsh MINGW64 ~/Documents/zice17-simon-edu (master)
$ git fetch upstream
remote: Counting objects: 8, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 8 (delta 3), reused 8 (delta 3), pack-reused 0
Unpacking objects: 100% (8/8), done.
From https://github.com/edualphacruncher/zice17
 1e01ed7..f650de0 master -> upstream/master
```

2. Type this command

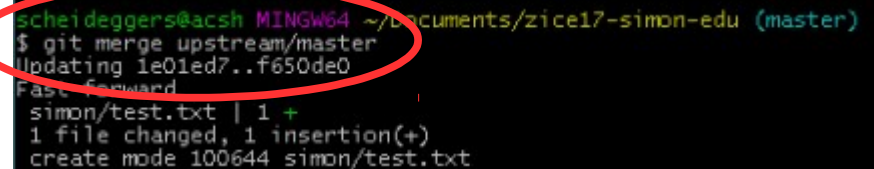
git checkout master



```
scheideggers@acsh MINGW64 ~/Documents/zice17-simon-edu (master)
$ git checkout master
Your branch is up-to-date with 'origin/master'.
Already on 'master'
```

3. Type this command

git merge upstream/master



```
scheideggers@acsh MINGW64 ~/Documents/zice17-simon-edu (master)
$ git merge upstream/master
Updating 1e01ed7..f650de0
Fast forward
simon/test.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 simon/test.txt
```

General information:

Work-flow overview

