Informatik

Vorlesung am D-MAVT der ETH Zürich

Hermann Lehner, Malte Schwerhoff

SS 2018

Welcome

to the Course Informatik

at the MAVT departement of ETH Zürich.

Place and time:

Thursday 10:15 - 11:55, HG F7/F5.
Pause 11:00 - 11:10, slight shift possible.

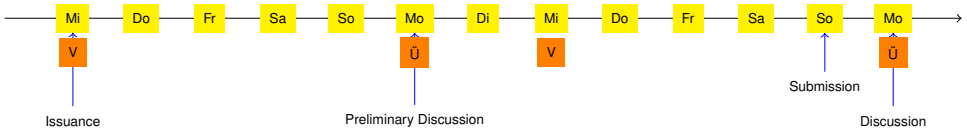
Course web page

`https://lec.inf.ethz.ch/mavt/informatik`

Team

chef assistant	Marco Ancona	
back office	Thomas Müller	
assistants	Ben Weber	Gian Andrea Müller
	Ivan Ovinnikov	Benjamin Rothenberger
	Oliver Glauser	Grzegorz Malczyk
	Cedric Tompkin	Leonhard Helminger
	Luc Holzherr	Mohammed Khouni
	Moisés Torres	Irene Baeza Rojo
	Zoltan Tschirren	Yifan Wang
	Kailin Huang	Daniel Bogado Duffner
	Rafael Wampfler	Jonas Lauener
	Pelin Dogan	Simone Meyer
	Byungsoo Kim	Maximilian Holst
	Bosshard Yvan	
lecturers	Dr. Hermann Lehner / Dr. Malte Schwerhoff	

Procedure



- Exercises availabe at lectures.
- Preliminary discussion in the following recitation session
- Solution of the exercise until the day before the next recitation session.
- Dicussion of the exercise in the next recitation session.

Exercises

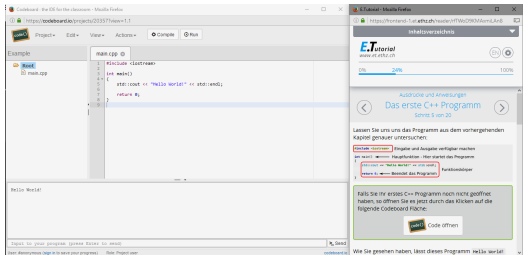
- At ETH an exercise certificate is not required in order to subscribe for the exams.
- The solution of the weekly exercises is thus voluntary but *stronly* recommended.

No lacking resources!

For the exercises we use an online development environment that requires only a browser, internet connection and your ETH login.

If you do not have access to a computer: there are a a lot of computers publicly accessible at ETH.

Online Tutorial



For a smooth course entry we provide an *online C++ tutorial*

Goal: leveling of the different programming skills.

Written mini test for your *self assessment* in the first recitation session.

Exams

The exam (in examination period 2018) will cover

- Lectures content (lectures, handouts)
- Exercise content (exercise sessions, exercises).

Written exam without any examination adds.

We will test your practical skills (programming skills [2]) and theoretical knowledge (background knowledge, systematics).

[2] as far as possible in a written exam

Offer

- During the semester we offer weekly programming exercises that are graded. Points achieved will be taken as a bonus to the exam.
- The achieved grade bonus is proportional to the achieved points of all exercise series. Achieving all points corresponds to 1/4 grade.

Academic integrity

Rule: You submit solutions that you have written yourself and that you have understood.

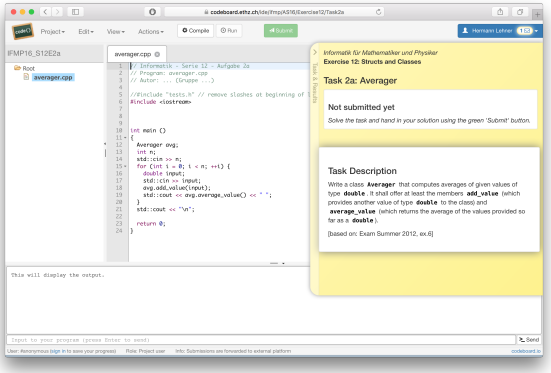
We check this (partially automatically) and reserve our rights to invite you to interviews.

Should you be invited to an interview: don't panic. Primary we presume your innocence and want to know if you understood what you have submitted.

Codeboard

Codeboard is an online IDE: programming in the browser

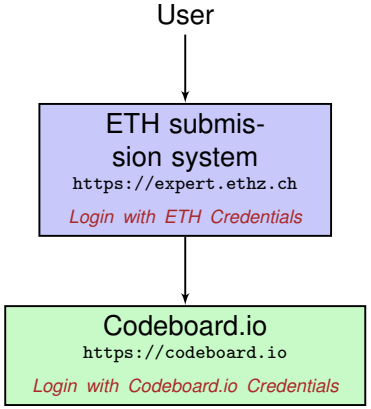
- Bring your laptop / tablet / . . . along, if available.
- You can try out examples in class without having to install any tools.



Code Expert

Our exercise system consists of two independent systems that communicate with each other:

- **The ETH submission system:** Allows us to evaluate your tasks.
- **The online IDE:** The programming environment



Enrollment for the project

Codeboard.io Registration

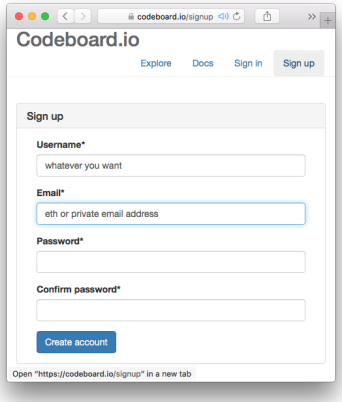
Go to `https://codeboard.io` and create an account, stay logged in.

Registration for exercises

Go to `https://expert.ethz.ch/mavt18` and inscribe for one of the exercise groups there.

Codeboard.io Registration

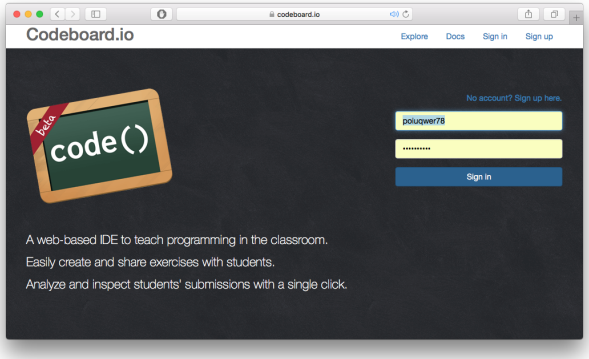
If you do not yet have an **Codeboard.io** account ...



- We use the online IDE **Codeboard.io**
- Create an account to store your progress and be able to review submissions later on
- Credentials can be chose arbitrarily *Do not use the ETH password.*

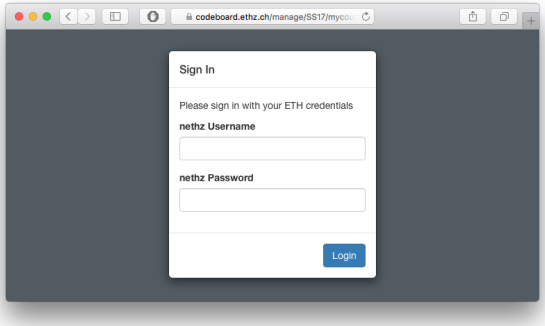
Codeboard.io Login

If you have an account, log in:



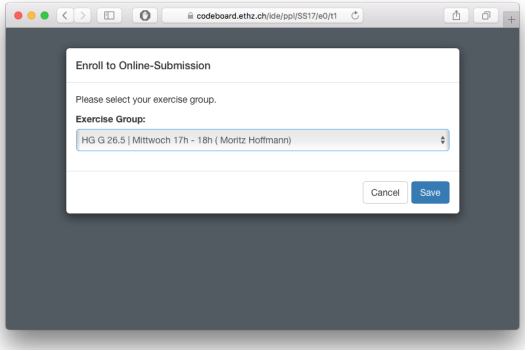
Opening the Project

- Visit `https://expert.ethz.ch/mavt18`
- Log in with your nethz account.



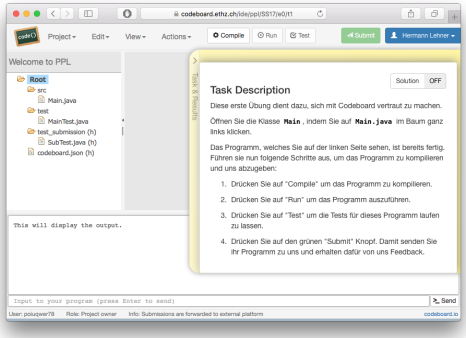
Opening the Project

Register with this dialog for (the only possible) exercise group.



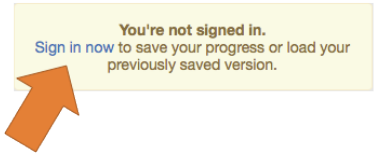
The Project

You are now registered and the first exercise is loaded. Follow the instructions in the yellow box.



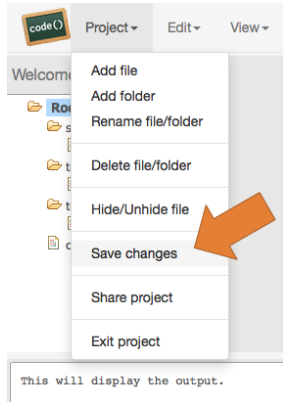
The Project – codeboard.io login

Attention If you see this message, click on Sign in now and register with you **codeboard.io** account.



The Project – store progress

Attention! Store your progress regularly. So you can continue working at any different location.



Literature

- The course is designed to be self explanatory.
- Skript together with the course Informatik at the D-MATH/D-PHYS department.
- Recommended Literature
  - B. Stroustrup. *Einführung in die Programmierung mit C++*, Pearson Studium, 2010.
  - B. Stroustrup, *The C++ Programming Language* (4th Edition) Addison-Wesley, 2013.
  - A. Koenig, B.E. Moo, *Accelerated C++*, Adddison Wesley, 2000.
  - B. Stroustrup, *The design and evolution of C++*, Addison-Wesley, 1994.

Credits

- Course structure developed together with Prof. Bernd Gärtner
- Skript from Prof. Bernd Gärtner.