Informatik

Vorlesung am D-MATH / D-PHYS der ETH Zürich

Bernd Gärtner

HS 2017

Welcome

to the Course Informatik!

at the D-MATH/D-PHYS of ETH Zürich.

Place and time:

Tuesday 13:15 - 15:00, ML D28, ML E12.
Pause   14:00 - 14:15, slight shift possible.

Course web page

`http://lec.inf.ethz.ch/ifmp`

Team

assistants	Max Biegert	Marius Gächter
	David Graf	Sejdiu Haki
	Sven Heberle	Maximilian Holst
	Tobias Klenze	Adrian Langenbach
	Christoph Müller	Benjamin Rothenberger
	Felix Richter	Tobias Sägesser
	David Sommer	Matthias Untergassmair
	Bhargav Bhatt	Sinisa Matetic
	Reza Sefidgar	Alen Stojanov
	Eliza Wszola	Marco Guarnieri
lecturer	BG	

Registration for Exercise Sessions

- Registration via web page
- 14 groups in German, 5 groups in English, one group in Italian
- Registration open today (September 19) from 3:15 p.m.
- All exercise sessions take place in parallel, you only have to watch out for the language!

Procedure

- Day 0 (Tuesday): Exercise available with lecture (online), first predicussion in the exercises
- Day 7 (Tuesday): Discussion of the exercise
- Day 12 (Sonntag): Latest submission of the exercise
- Day 14 (Tuesday): Postdiscussion of the exercise

Exercises   *Bonus!*

- 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.
- 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 only 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. Primarilyy we presume your innocence and want to know if you understood what you have submitted.
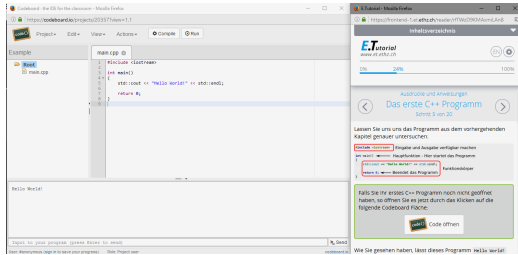
On cloud nine...

- For the exercises, we use a very easy to use online development environment that requires only a browser, internet connection and your ETH login.
- All your drafts and solutions are stored online and accessible from everywhere.
- If you do not have access to a computer: there are a a lot of computers publicly accessible at ETH.
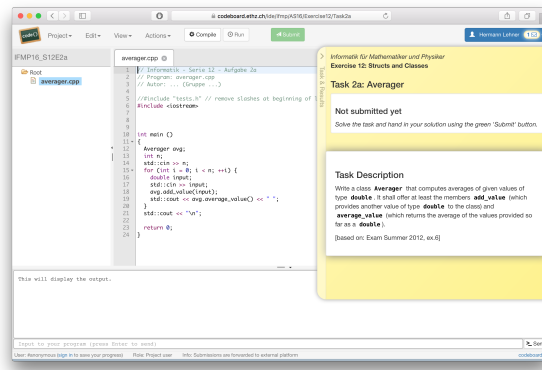
Online Tutorial

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 excercise session (Tuesday, September 26), no effect on final grade

Exams

The exam (in the winter or summer 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 [1]) and theoretical knowledge (background knowledge, systematics).

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[1] as far as possible in a written exam

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.

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

User

ETH submis-
sion system
`http://expert.ethz.ch`
Login with ETH Credentials

Codeboard.io
`http://codeboard.io`
Login with Codeboard.io Credentials
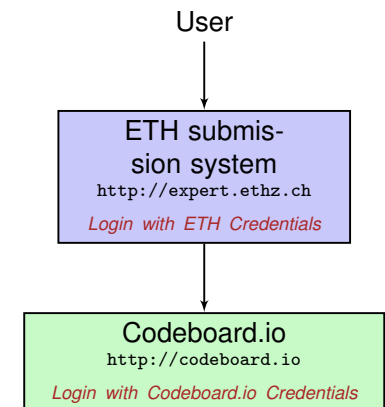
Exercise Registration
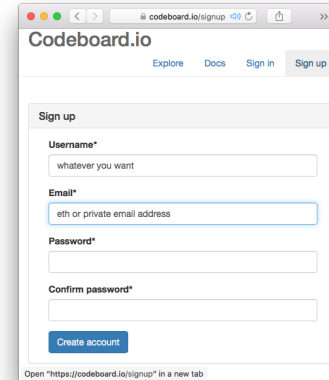
Codeboard.io Registration
Go to `http://codeboard.io` and create an account, stay logged in.

Registration for exercises
Go to `http://expert.ethz.ch/ifmp17` and inscribe for one of the exercise groups there.

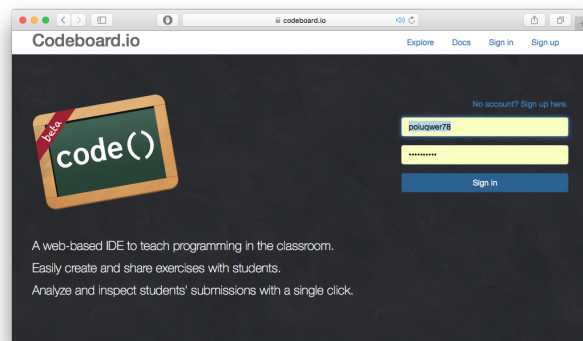# Codeboard.io Registration

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:
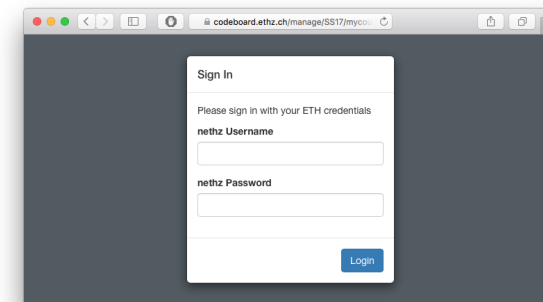
Exercise group registration I

- Visit `http://expert.ethz.ch/ifmp17`
- Log in with your nethz account.
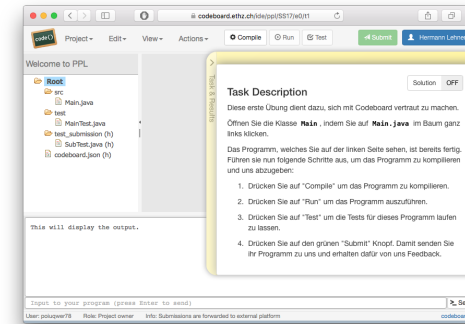
Exercise group registration II

Register with this dialog for an exercise group.
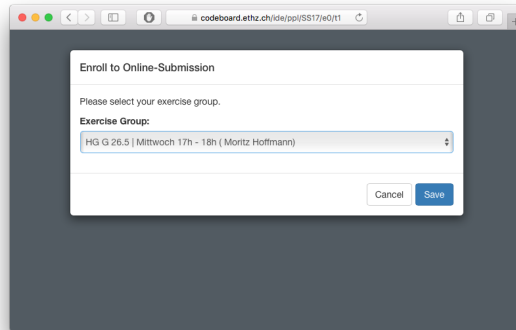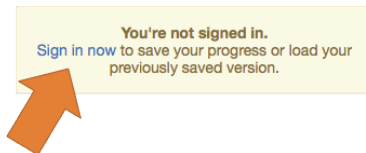
The first exercise.

You are now registered and the first exercise is loaded. Follow the instructions in the yellow box.
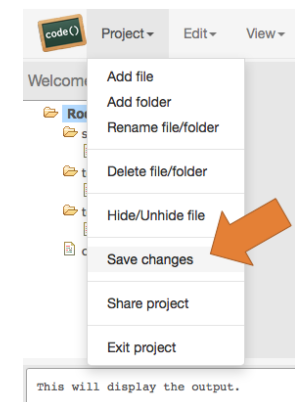
The first exercise – codeboard.io login

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

The first exercise – 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.

Andere Quellen werden hier am Rand in dieser Form angegeben.