Geometric Modeling

Summer Semester 2010

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Introduction

Today...

Topics:

- Formalities & Organization
- Introduction: Geometric Modeling
- Mathematical Tools (1)

Today...

Topics:

- Formalities & Organization 
  - Registration
  - Exercises & Exams
  - Time & Location
  - Feedback
- Introduction: Geometric Modeling
- Mathematical Tools (1)

Registration

Registration: Lecture

Important: You have to *register* for the lecture

- If you don't register, you cannot do the exercises and cannot take exams
  (you are welcome to come in and listen, but this won't get you any credits for your studies)
- You must *register* within the *first two weeks* of the lecture
  - Email Jens Kerber: kerber@mpi-inf.mpg.de
  - Include: *Name*, *student number*, *your email*, "*Studienordnung*"
  - If you are registered, just have to do exercises and pass the exam, *otherwise you will fail the lecture*.
  - Register before April 29th, 2010. This is also the last day to *unregister* again (kerber@mpi-inf.mpg.de)

Registration: Lecture

Summary:

If you want to take the exam & the exercises

⇒ Sign up on or before April 29th, 2010.

In case you change your mind

⇒ Unregister on or before April 29th, 2010.

How to register / unregister?

- Email to Jens Kerber: kerber@mpi-inf.mpg.de
- Include *name*, *student number*, "*Studienordnung*", *email*

Written Exam

Signup for the Exam

You also have to *signup for taking the exam*.

- Due to university requirements, you have to sign up for the exam *separately*.
- If you sign up for the lecture, you must sign up for the exam.
- If you forget to sign up for the exam, but signed up for the lecture you will fail automatically.
- You will be notified about the signup deadline by the university.
- Sorry for the red tape...

Registration: Exam

Summary:

If you have signed up for the *lecture*

⇒ Sign up for the *exam* as well.
(Please pay attention to the university deadline!)

Exercises & Exam

To pass the lecture, you need to...

- Participate in *all exercises*
- Obtain at least *50%* of the *exercise score*
- *Pass* the final *written exam* or *the re-exam*
  - Two tries, but no pass if you fail both exams
- A score of more than 50% in the exercises gives you a *bonus score* for the written exam.

Date for the written exam:

- Last week of the course (details later) - *discussion?*
- Re-exam at the beginning of wintersemester 2010/2011

Exercises

Exercises

How do the exercises work?

- Goal: theory & practice
- Theory & practice: Alternating each other week
- Exercises will be posted online on Tuesdays

Theoretical Exercises

- Each student has to prepare a write-up
- Hand-in solutions at the *Tuesday lecture* (before the lecture)
- Will be graded and returned in the exercise courses (one week later)
- Solutions will be discussed in the exercise courses

Practical Exercises

Practical Exercises

- Programming assignments
- Every other week, instead of theory
- Group work: groups of three students
- A C++/QT framework will be provided (Linux/Windows)
- Other languages can be used (but no support), please talk to us about the details in case you want to use your own environment

Practical Exercises (II)

Practical Exercises: Grading

- Grading will be done in personal interviews
- Please sign up for an interview slot (list will still be available at Room 208 after the lecture)
- The group of three *must show up entirely*.
- Everybody is graded individually, based on the group's implementation and the personal knowledge about the implementation, i.e. *everybody must be able to explain all of the code to the tutor*.

Practical Exercises (III)

Practical Exercises: Grading

- **Time:** Slots will be during exercise course times
  Place: same room as exercise course
- Each group is assigned a 20 minutes slot. It is sufficient to show up for this slot only (not for the whole 90 minutes)
- To avoid delays, please be punctual

Practical Exercises (IV)

Hardware / Software:

- You must *demonstrate* your implementation in the exercise room.
- Bring your own laptop. *(Discussion)*
- Windows users:
  - Visual Studio Express is available for free download
- Linux users:
  - GCC/QT 4.3 and K-Develop are part of any major Linux distribution
- If necessary, you can use your CS login for the CIP machines (our framework has been tested there), but you need a laptop for the presentation

Practical Exercises (V)

First Exercise Meeting:

- The first meeting for the exercises will be next week
- Unlike the other practical grading meetings, we will meet for 90 minutes in the exercise room (E1 4 / R023)
- Topics:
  - Using the programming environment (personal advice)
  - Introduction to the provided C++ framework
- *Unlike* the grading interviews, participation in next week's meeting is voluntarily.
- It is just meant to help students with little programming experience.

Time & Location

Time & Location

Lecture:

- Tuesday 14-16h (c.t.)
  Thursday 14-16h (c.t.)
- Room 021, MPI Building (Campus E1 4)

Time & Location

Exercise Courses:

- Time:
  - Friday 10-12h
  - Friday 12-14h

  (discussion)
- Location
  - Theory: E1 4 – R023
  - Practice: E1 4 – R023
  - Exception: July, 2nd (alternative will be announced)

Schedule (tentative)

Week	Lecture Tuesday, hand in Assignments		Assignments out on Tuesday	Lecture Thursday	Exercises Courses (Friday)
Apr. 20. / 22.	Lecture #1		Ass. #0: Practice (programming tutorial)	Lecture #2	
Apr. 27. / 29.	Lecture #3		Ass. #1: Theory	Lecture #4	Progr. tutorial #0
May 04. / 06.	*Guest lecture #5*	hand in: Theory #1	Ass. #2 Practice	*Guest lecture #6*	Solutions #1
May 11. / 13.	Lecture #7		Ass. #3 Theory	Holiday	Interviews #2
May 18. / 20.	Lecture #8	hand in: Theory #3	Ass. #4 Practice	Lecture #9	Solutions #3
May 25. / 27.	Lecture #10			Lecture #11	**- no course -**
June 01. / 03.	Lecture #12		Ass. #5 Theory	Holiday	Interviews #4
June 08. /10.	Lecture #13	hand in: Theory #5	Ass. #6 Practice	Lecture #14	Solutions #5
June 15. / 17.	Lecture #15		Ass. #7: Theory	Lecture #16	Interviews #6
June 22. / 24.	Lecture #17	hand in: Theory #7	Ass. #8: Practice	Lecture #18	Solutions #7
June 29. / July 01.	Lecture #19		Ass. #9: Theory	Lecture #20	Interviews #8
July 06. / 08.	Lecture #21	hand in: Theory #9	Ass. #10: Practice	Lecture #22	Solutions #9
July 13. / 15.	Lecture #23			Lecture #24	Interviews #10
July 20. / 22.	Lecture #25				

Evaluation

Questions & Suggestions

- Please let us know if there are any issues *anytime*
- *We appreciate your feedback!* Please let us know:
  - ...if you find a certain part of the lecture hard to understand or not well explained.
  - ...any suggestions how to improve the lecture or the exercises.
  - ...any other questions, suggestions or concerns.
- Easiest: Come to my office
  - Office hours: just drop by, or mail to be sure I am around.
- Mail me, or speak to / mail the teaching assistants

Questions?