Visualisierung 1
Übungsteil
2015W, VU, 2.0h, 3.0EC 186.827

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Introduction

- **Practical implementation** of theoretical concepts presented in the lecture
- Three available **topics**
  - Volume rendering
  - Flow visualization
  - Analysis of multivariate data
- **Data files** provided for every topic
Organisation

(1) **Groups** of 2 students
   - Form groups online (Abgabesystem) https://lva.cg.tuwien.ac.at/vis1/
   - Deadline for group allocation: 04.11.2015

(2) **Choose topic**

(3) **Implementation**
   - C++ (and OpenGL, if necessary)
   - Source code available to start project
   - Deadline for programming task: 10.12.2015
Programming Task

- **Minimum requirement** for every topic which has to be implemented
- Additional tasks can be implemented to improve the grade
- **Description** of tasks can be found online: https://www.cg.tuwien.ac.at/courses/Visualisierung1/VU.html
Programming Task

- Not allowed to use existing frameworks
- **To get a positive grade**, you have to
  - Implement the tasks yourself
  - Understand the theoretical background
  - Be able to explain the source code during the *Abgabegespräch*
Not mandatory to use the framework

Simple **C++ framework** to start project
- Can start simple Qt GUI
- Can load all data files provided for the lecture

Possible to use **Visual Studio** 2013, or just the source files

Available online: [https://www.cg.tuwien.ac.at/courses/Visualisierung1/framework/download.html](https://www.cg.tuwien.ac.at/courses/Visualisierung1/framework/download.html)
Framework
Supervision

- Personen
  - Johanna Schmidt (Übungsleitung)
  - Oana Moraru (Tutorin)

- Platform
  - Informatikforum
OpenLabs

Institute of Computer Graphics, Favoritenstraße 9-11, 5th Floor, VisLab

Dates:
- 08.10.2015, 15:00 - 16:00
- 22.10.2015, 15:00 - 16:00
- 05.11.2015, 15:00 - 16:00
- 19.11.2015, 15:00 - 16:00
- 03.12.2015, 15:00 - 16:00
Computers available in the VisLab, if students do not have access to appropriate hardware (please contact Johanna Schmidt)
Submission

Submit your source code online

- Abgabesystem
  https://lva.cg.tuwien.ac.at/vis1/
- Until 10.12.2015
- ZIP-File, should contain all necessary source files and project files (no data files)

Possible to submit programming task up to 2 days later (minus 4 points)
Programming task will be **graded** during the **Abgabegespräch**

- One **Abgabegespräch** per group
- Register online (one person per group) [https://lva.cg.tuwien.ac.at/anmeldung/choose_termin.php?lva_id=40](https://lva.cg.tuwien.ac.at/anmeldung/choose_termin.php?lva_id=40)
- Discussion about implementation, source code details, technical background
Three available topics

- Volume rendering
- Flow visualization
- Analysis of multivariate data
Topics

- Three available topics
  - Volume rendering
  - Flow visualization
  - Analysis of multivariate data
Three available topics

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