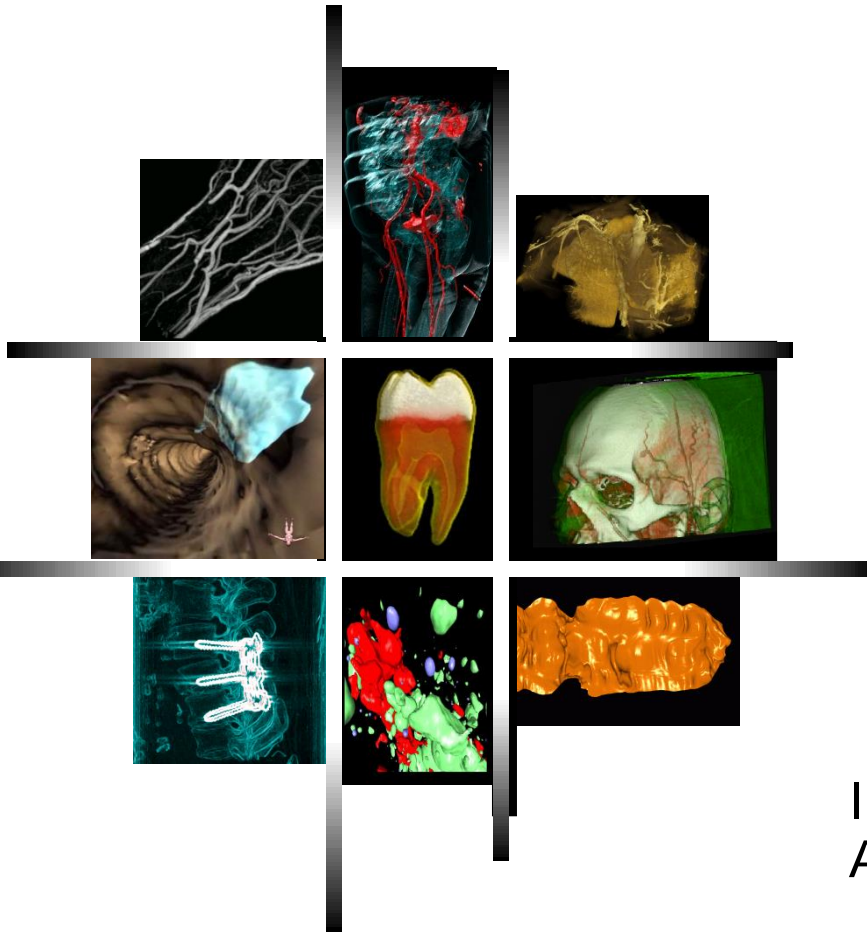


Visualisierung 1

Übungsteil

2015W, VU, 2.0h, 3.0EC 186.827



Johanna Schmidt
Oana Moraru

Institute of Computer Graphics and
Algorithms (ICGA), VUT Austria



- **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



(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



- **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>

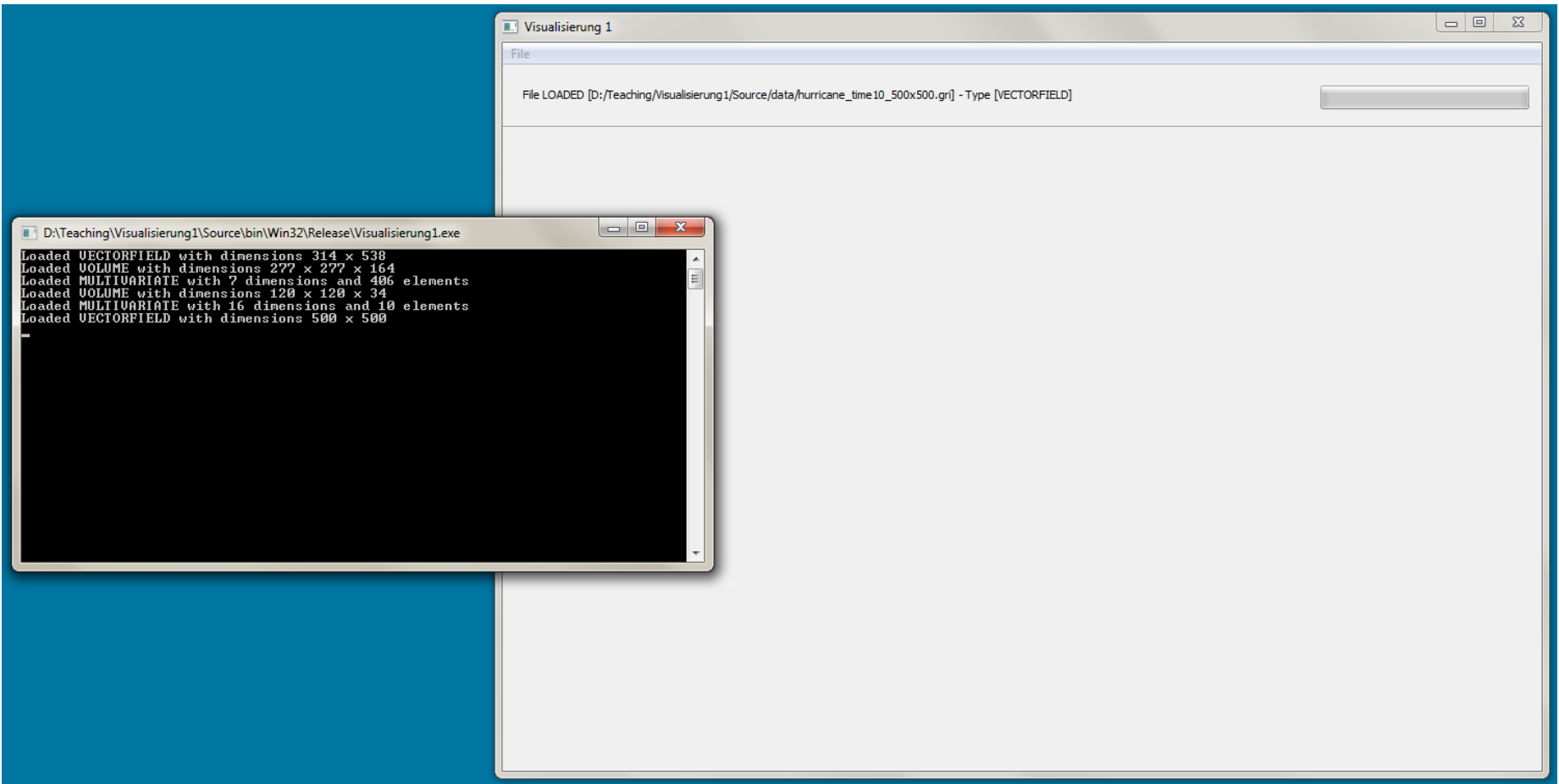


- Not allowed to use existing frameworks
- **To get a positive grade**, you have to
 - ◆ Implement the tasks yourself
 - ◆ Understand the theoretical background
 - ◆ Be able to explain the source code during the *Abgabegespräch*



- **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>





■ Personen

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

■ Plattform

- ◆ Informatikforum
<http://www.informatik-forum.at/forumdisplay.php?341-Visualisierung-1-VU>



■ 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)



- **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
 - ◆ Discussion about implementation, source code details, technical background



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



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



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



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

