

Visualisierung 1 LAB

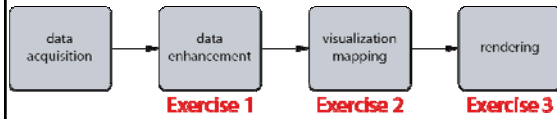
Vorbereitung

Institute of Computer Graphics and Algorithms
Vienna University of Technology




Goal



- Understanding of the visualization pipeline
 - From raw data to meaningful visual representation



```

graph LR
    A[data acquisition] --> B[data enhancement]
    B --> C[visualization mapping]
    C --> D[rendering]
    B --- E[Exercise 1]
    C --- F[Exercise 2]
    D --- G[Exercise 3]
  
```



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Exercises

- Exercise 1: Pre-processing
 - <http://www.cg.tuwien.ac.at/courses/Visualisierung1/Exercise1.html>
- Exercise 2: Visual mapping
 - <http://www.cg.tuwien.ac.at/courses/Visualisierung1/Exercise2.html>
- Exercise 3: Volume rendering
 - <http://www.cg.tuwien.ac.at/courses/Visualisierung1/Exercise3.html>



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Registration

- Via "Vis1 Abgabesystem"
 - <http://lva.cg.tuwien.ac.at/vis1>
- Possible until Friday 11.11.2011!


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Supervision

- Informatik-Forum
 - <http://http://www.informatik-forum.at/forumdisplay.php?341-Visualisierung-1-VU>
- Tutors:
 - Bernhard Steiner
 - Iliyana Kirkova
 - Matthias Labschütz
 - Thomas Mühlbacher

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Schedule

- Important dates:
 - 18.10.-11.11.2011**: Registration
 - 22.10.-18.11.2011**: Exercise 1
 - 21.11.-16.12.2011**: Exercise 2
 - 19.12.2011-11.01.2012**: Exercise 3
 - Mid January**: Oral exam
- Open VisLab:
 - In the last week of each exercise
 - First: **Monday, 14.11.2011, 16:00-17:00, VisLab** (Institute for CG and Algorithms)

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Delivery



- Generate a ZIP file of the corresponding exercise with the “Generate Submission” tool
- Upload the ZIP file in the “Vis 1 Abgabesystem”
- After the upload you can take a look at your files on our server
- We will compile your source files on our server (with a similar setup)

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Framework



- Framework based on Volumeshop
- Contains the reference solution for all three exercises
- Hardware specification
 - ◆ GPU has to support OpenGL 3.2 and Shader Model 4.0
- <http://www.cg.tuwien.ac.at/courses/Visualisierung1/Framework.html>

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Demo



- Short live demo of the framework

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Thank you!



Questions?

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