# Visualisierung Medizinischer Daten 2
# Vorbesprechung

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# Introduction

- Visualisierung medizinischer Daten 2
- VU, 3 ECTS
- Mandatory for the master study *Medizinische Informatik*

# Goals

- Theoretical:
  - Get a specialized knowledge in the field of medical visualization
  - Be able to study a state-of-the-art topic

- Practical, be able to…
  - …use an existing framework, or
  - ...implement a visualization technique

# How to achieve these Goals?

- A series of lectures throughout the semester
- Create images to certain topics
  - Choose the topics from a predefined list
  - Use one or more existing frameworks, or
  - Implement these topics
  - Create corresponding result images
  - Write a short summary document

# How to achieve these Goals?

- Tasks:
  - Find a colleague (group of 2 is preferred)
  - Get in touch with 2 or more frameworks
    - You can use your own framework
  - Install and try these frameworks
  - Write a short summary (official registration)
  - Choose a certain amount of topics (from the list on the webpage)
  - Summary with corresponding result images
  - Present your results

# List of Topics

- Broad spectrum of topics through the field of medical visualization
  - Slices
  - Volume rendering
  - Iso-surface rendering
  - Segmentation
  - Vessel enhancement
  - ... or choose a custom topic!
- Every topic has a number of points
- In total, 30 points must be reached

# Result Images

- Use existing frameworks
  - MeVisLab
  - 3D Slicer
  - VolumeShop
  - others
- Implement the topics
  - Using your own framework
  - VolumeShop (will be provided on the webpage)
  - Points of topics count twice!

# Useful Links

- Dates on the webpage
  - http://cg.tuwien.ac.at/courses/MedVis2/VU.html

- Choose a certain set of topics and create corresponding result images
- Oral exam at the end of the semester

# Important Dates

- 1st Submission (Registration) until 24.10.2013
- 2nd Submission until 12.01.2014
- Presentations 16.01.2014
  23.01.2014*
- Oral exam + review of results 29.01.2014
  30.01.2014

***At this date the BEST RESULTS will be awarded!**

Send all your submissions via the ABGABESYSTEM
https://lva.cg.tuwien.ac.at/vismed2/

# Grading

- 05% summary of the frameworks
- 30% result images or implementation
- 15% presentation of the results
- **→ 50% for the practical part, BUT at least 25%**
- 50% oral exam
- **→ 50% for the theoretical part, BUT at least 25%**

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| | | |
|---|---|---|
| Grades: | > 87% | 1 |
| | > 75% | 2 |
| | > 62% | 3 |
| | >= 50% | 4 |
| | < 50% | 5 |

# First Steps

1. Register to the course in TISS
2. Form a group (1-2 members) via Abgabesystem
3. Download and try some frameworks, or choose your own
4. Submit summary of the frameworks
   - About one A4 page (PDF)
   - Including first impressions, if you think that you can achieve the results by using one of these frameworks
   - In case of your own, describe it shortly

# Questions?

- Webpage: http://cg.tuwien.ac.at/courses/MedVis2/VU.html
- Abgabesystem: https://lva.cg.tuwien.ac.at/vismed2/