Computer Graphics and Visulization

http://www.cs.umu.se/kurser/TDBC07/

Instructors and Assitants

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Course Description

Mål och innehåll

Kursen mål är att ge kunskaper om teoretiska grunder för 2- och 3-dimensionella grafiska metoder och ge en förståelse för tillämpningar av dessa metoder inom vetenskaplig visualisering. Under kursens gång behandlas algoritmer för rastergrafik, geometriska transformationer, vyer och projektioner, fastställande av synliga linjer och ytor, färgteori, illumination och färgtonsättning.

Litterature

Computer graphics with OpenGL, 3rd Edition
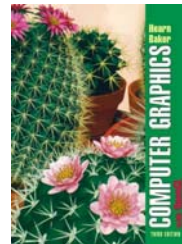
Donald Hearn, M. Pauline Baker, Prentice Hall
ISBN: 0-13-015390-7,
880 pages.

Examination

Written Exam
January 19, 2005, Skrivsal 7
100 p total, 50 p required

3 Mandatory Projects
Functionality and code quality need a passing grade

Project presentation
Participation and one oral presentation required

Projects

- 3 mandatory projects
- Done individulay
- No report is required, but the code needs to be handed in on paper and made available on your CS-account
- Compliant with Linux (or Solaris)
- At least one oral presentation is needed

Bonus points

*Possible to get bonus on the projects
to raise the final grade (to 4 or 5)*

Requirements:
- Hand in the project on time
- Participation and oral presentation for project 2 and 3

Bonus will be given for:
- Quality and extent of functionaliy
- Presentation performance

Oral Presentations

For Project 2 and 3

- The presentation is done to a group of 6-7 people
- A slot can be booked online before deadline
- A demonstration of the functionality is required
- Prepare and look up available presentation software and OS's

Schedule

- Lectures
  - Monday, Thursday 13.15-15.00, MC413 "the Icebox"
- OpenGL introduction
  - Wednesday, November 3
    - 13.15 – 15.00 Last names A-L
    - 15.15 – 17.00 Last names M-Ö
- Presentations
  - Scheduled after projects are due

Course Evaluation

- Done online at the end of the course

- Response groups
  - Four persons
  - Three meetings during the course
  - Approx. 30 min