IGS project 2004

The Projects with homepages, documentation, video, binaries and source code

Project Resources
Project Hints
Project Assessment

- 19 Okt: Order of project presentation added to page Project Groups
- 5 Okt: Data for the Island elevation map added in Project Resources
- 1 Okt: First group has signed up. Please mail Lars to sign up and get access to your project presentation webpage.
- 27 Sept: This years project will continue where last years project left off. The return of seismic visualization with lots of new interaction methods and visualization techniques.

GETTING STARTED:

- The IGS project is worth 10 points of 40 in total for the course (labs 10p, project 10p, exam 20p). It is compulsory for fulfilling the course.
- Size of project groups: 2-3 people
- For each project group: send an email with the names of the participants and the project you choose to Lars Winkler Pettersson.
Project you choose to Lars Winkler Pettersson. We will prepare a list of all the groups.

- All groups work on the same project assignment, IGS Main Project. Exceptions to this must be discussed with and approved by the project tutors (Lars, Mikael). See below: How To Submit a Project Description
- There is some tutoring on the project. You are welcome to book a meeting with Lars or Mikael in case you get stuck. You are encouraged to use tools such as Telephone, Skype, VNC, Remote Assistance, etc for quick communication.
- To get started on the project use the hints on page: Project Hints and get the seismic data from http://www.it.uu.se/edu/course/homepage/igs/ht03/projects/seismic/seismic_data.zip

DELIVERY:

The following parts should be submitted

- In Printed Form: Report
- In Electronic form: Report, Executables and Visual Studio Workspace files

  Present your project in your groups project webpage.

  The minimum requirement for your webpage, is a simple page from where it is possible to access all parts of your submission (except the printed report ;)

A) Report containing:

  - Follow this template:
  - Title page: Course and date, group number, names of group members and e-mail addresses
  - Index
  - Presentation of your program design and design process:

    For each of the six requirements describe the solution you found, how you came up with your specific solution, which alternative approaches you might have tried and why you discarded them, what you experienced to be the biggest problems and how overcame them. Reflect critically, how your solution actually worked for solving the problem in the project assignment. Discuss shortcomings and ideas for improvement.

  - Presentation of the result:

    Describe how your application works (functional explanation) and how it is used (user guide). Illustrate different steps in the user guide with appropriate screenshots. Present also the results of your 3D visualizations for different data selection situations and discuss the usability/property of your interaction metaphors.

B) Program:

  - Executable binary file and required resources (textures/geometries).
  - Source code and .NET project workspace files

Delivery date and place:

- Final delivery date:


We will prepare a presentation scheme as soon as we know the groups. The scheme will be posted to you via e-mail ((1it210@hci.uu.se)) and on the course home page.

Each group will have a 10 minutes time to shortly present their solution.
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- Make this presentation very short and flashy like doing marketing for your "product"
- In your presentation you should point out the originality of your application and of the means of interaction.
- Use PowerPoint Presentations primarily. If you intend to give a runtime demonstration (strongly encouraged), please have an MPEG or AVI included in your presentation rather than starting your application! camtasia evaluation screen capture program*
- data can be acquired here http://ngdc.noaa.gov/cgi-bin/seg/ff/nph-newform.pl/seg/topo/customdatacd

PROJECTS TO CHOOSE FROM:

IGS Main Project
1. An interactive visual explorer for seismic data
Project description: projdescription_seismic
Short name: seismic

Background: Visualization of seismic events is a challenging task in geophysical applications. There are few applications that exploit the third dimension to present the complex nature of these data. The objective of this project is to develop an interactive 3D application that enables the user to browse and visualize seismic events that are recorded over a certain period in time and correlated to a geographical position and depth. Develop an interactive 3D application using the VRT development environment that allows a user to interactively examine the data both in regard to temporal and spatial context.

Other suggested project topics (need a Project Description)
ARToolkit enabled presentation program. How many times have you not got bored by slide presentations full of text that are only recapped by the presenter? To change that you could add swift interaction with 3D models and tangible movement between slides to your presentation. Why not make an emphasis on your presentation?
Short name: emphasis

IGS Student Submitted Projects
Background: 
Short name: _

HOW TO SUBMIT A PROJECT DESCRIPTION

If you prefer an alternative to the IGS Main Project you should
1. submit a project description comparable to projdescription_seismic by email to Lars Pettersson
2. your alternative will be evaluated
   1. and if needed you will be asked make some modifications to your project description to assure it is at the same level of difficulty as the IGS Main Project
3. the project description is posted here and the submitter will be emailed a notification