

Computer Graphics

Virtual Environments

Spring 2015

“Velkommen!”

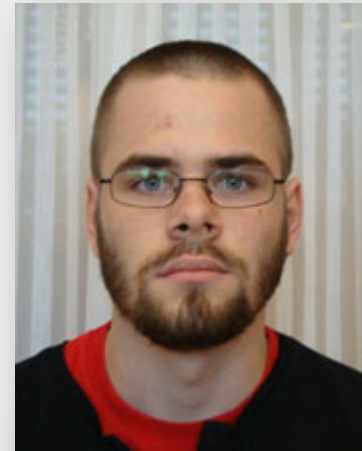
- We are
 - Tom-Robert Bryntesen: *3D programming*
 - Michael Louka: *Concepts, theory & practice*
 - Thomas Winger: *3D programming*



09/02/15



MLo Feb 2015



About the course

- Theory and practice for implementing non-trivial interactive 3D applications
 - with a focus on virtual environments
- Introduction to concepts and research issues
- Practical introduction to using the JMonkeyEngine 3D API to implement applications

Web Pages

- <http://create.ife.no/vr/kurs/vrhiof15/info/>
- Course Info
 - Plan, Tools, Literature, Evaluation, etc.
- Modules
 - New material added every week
- Resources
 - External resources, websites, groups, etc.

Course Plan

- Lectures in IFE's VR lab every Monday
 - Start at 12:15
 - Normally last 3 hours with
 - 1 hour on concepts/theory
 - 2 hours on applying concepts
 - The first and last lectures are an hour longer
- Also four programming “Workshops”

Course Plan

Week	Topic	Date	Duration
1	Introduction, including demos	9 February 2015	4
2	Content Production	15 February 2015	3
3	Workshop	23 February 2015	3
4	Interaction	2 March 2015	3
5	Animation	9 March 2015	3
6	Workshop	16 March 2015	3
7	Simulation	23 March 2015	3
8	Optimisation	13 April 2015	3
9	Workshop	20 April 2015	3
10	Immersion, including workshop	27 April 2015	4

Literature

- Required:
 - Lecture slides and notes (links/handouts)
 - Articles and papers (links/handouts)
 - Book: JMonkeyEngine 3 online documentation
- Optional:
 - See the main course website on the HiØ site for suggestions of optional further reading

Evaluation

- You will work on an assignment during the course that will be submitted for evaluation
- Your assignment should demonstrate your understanding of how to implement concepts taught
- The assignment requires that you develop an interactive 3D application and document the design and concepts applied in a report.
- *We will discuss the assignment and what you are expected to demonstrate in it during the first workshop.*

Advice, Questions, Guidance

- E-mail addresses:
 - Tom-Robert: tom-robert.bryntesen@hrp.no
 - Michael Louka: michael.louka@hrp.no
 - Thomas Winger: thomas.winger@hrp.no
- Can also visit us in Os Allé 5 (3rd floor)
 - Need to phone first to be let in so best to arrange visit via e-mail beforehand

Finally

We hope that you will find this course education, interesting, useful, and fun!