

Title: NM2: Interactive Visualization Date: 25/4/08		Author: A. Eliëns Version: 1.0
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Course name	NM2: Interactive Visualization	
Study load	6	
Semester	2	
Contents	The course will address the development of rich media applications using current web-based media technology, with a special focus on animation and interactive visualization(s) of dynamic complex systems. The platform used will be Adobe flex / as3. Recommeded literature: Foundation Actionscript 3.0 Animation: Making Things Move! by Keith Peters Online reference(s): http://livedocs.adobe.com/flex/3	
Prerequisites	CA1, CS1, NM1, MA1	
Goals and attainment targets	During the course students are expected to learn the skills to create moderately complex media applications. After following the course, students are expected to have - awareness of issues in information visualisation - familiarity with XML-based data and program configuration - fluency in scripting (actionscript) and the use of Ifex. - full literacy in developing simple physics based animations Students are expected to have an explorative attitude, and will be stimulated in developing aesthetically interesting animations and dynamical visualisations.	



Course and curriculum development for Creative Technology (continued)		
Course name	NM2: Interactive Visualization	
Place in curriculum	NM2 is meant to be an intermediate course, required for both ST and NM students. The course will enable students to apply their knowledge of dynamic systems and mathematics in a (media-rich) context, as a preparation for more advance projects in virtual enbironments and game development.) In relation to DE-courses, the focus of NM-courses Is primarily on technical issues and programmatic authoring.)	
Application area	Dhysica based enimetion is an effective mann of visualizing complex information etryotyre. Effective information	
Application area, motivating examples	Physics based animation is an effective means of visualizing complex information structurs. Effective information visualization morever depends on intuitive ways of interaction to support exploration. Interactive information visualization is increasingly being used in web 2.0 applications, for giving access to huge amounts of user-contributed data such as blogs and video.	
Teaching methods	The course will be organized around lectures in which both technical and conceptual issues, related to animation and visualization, are dealt with. The assignments will consist of a series of basic exercises and a final exercise In which the students are required to develop a moderately complex dynamic web application. Regular feedback will be given in classroom sessions where students present their work as well as via online comments of email. Grading will be based on basic assignments, the final assignment project with documentation, as well as an essatin which a topic of choice, either technical or in relation to issues of animation and information visualisation, is discussed in more depth.	
Nr of participants		
Special facilities	computer lab & presentation facilities, installation of flex 3 SDK.	

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