

# Advanced Graphics and Interaction 2014: Lectures 2-3



AGI14 Students @ VIC

Mario Romero  
2014/09/05



**VICSTHLM**  
VISUALISATION INTERACTION COLLABORATION

# Course Schedule

• Wed Sept 03 13-15	Lecture 1	Intro
• Fri Sept 05 15-19	Lectures 2-3	Group Formation
• Wed Sept 10 13-15	Lecture 4	Proposals
• Thu Sept 11 10-12	Lecture 5	Feedback on proposals
• Mon Sept 15 8-10	Lecture 6	Hello World! Demos
• Thu Sept 18 10-12	Lecture 7	ForskarFredag Preparation
• Wed Sept 24 14-16	Lecture 8	Demo Day!!!
• Thu Sept 25 16-20	Debaser Invasion	Setup 16:00 – 20:00
• Fri Sept 26 8-18	Debaser Domination	ForskarFredag 2014!!!
• Mon Sept 29 8-10	Lecture 9	Reflections of ForskarFredag
• Wed Oct 8 13-15	Lecture 10	Agile Development → ComiCon
• Mon Oct 13 8-10	Lecture 11	Agile Development 2
• Wed Oct 15 13-15	Lecture 12	Agile Development 3
• Wed Oct 29 16-23	Kistamässan Invasion	Setup 16:00 – 23:59
• Thu Oct 30 – Sun Nov 2 9-19	Kistamässan Domination	COMICON 2014!!!
• Tue Nov 4 10-12	Lecture 13	Reflections on ComiCon
• Wed Nov 5 10-12	Lecture 14	New groups
• Fri Nov 7 15-19	Lectures 15-16	Epson Moverio Workshop
• Tue Nov 11 10-12	Lecture 17	Proposals
• Tue Nov 18 10-12	Lecture 18	Feedback on proposals. Early hello world dem os
• Tue Nov 25 10-12	Lecture 19	Hello world !demos
• Tue Dec 2 10-12	Lecture 20	Demo Day!!!
• Thu Dec 4 15-18	VIC Invasion	Prepare Open House
• Fri Dec 5 15-19	Open House	AGI14-VIC Open House

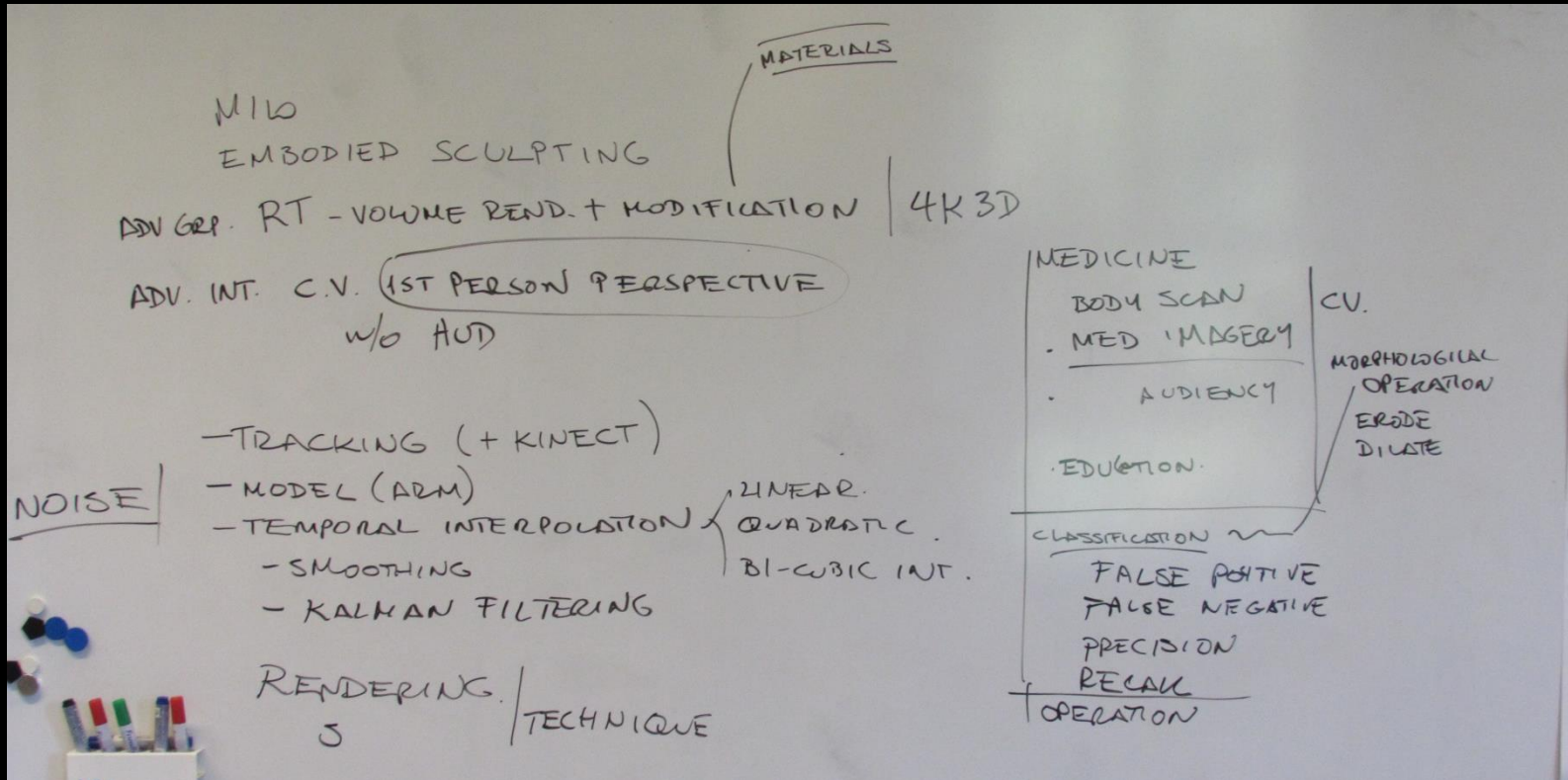
# Assignment 1 for today

1. Answer this [Survey](#)
2. Watch these videos and answer this [survey](#):
  1. [2012 SIGGRAPH Technical Papers](#)
  2. [2012 SIGGRAPH Emerging Technologies](#)
  3. [2013 SIGGRAPH Technical Papers](#)
  4. [2013 SIGGRAPH Emerging Technologies](#)
  5. [2014 SIGGRAPH Technical Papers](#)
  6. [2013 SIGGRAPH Emerging Technologies](#)
3. Read this six-page paper and answer this [survey](#):
  1. [Romero 2013](#)
4. Read this six-page paper and answer this [survey](#):
  1. [Romero et al 2014](#)
5. Familiarize yourself with [KTH Social](#) and [Facebook](#) group pages
6. Think of what you would like to build in AGI14

# Agenda

1. Demo: Milo Embodied Sculpting
2. KTH Social and Facebook announcements (Assignment 1.5)
3. Personal Presentations (Assignment 1.1)
4. Questions on Course Structure (Assignment 1.2)
5. Break
6. Presentation [SuitMe](#) – [Emil Harðarson](#)
7. Group Formation (Assignment 1.1)
8. What is a good Proposal? (Assignment 1.3, 1.4)
9. Break
10. Brainstorming (Assignment 1.2)
11. Break
12. Feedback on Brainstorming
13. Pizza and a Movie

# Feedback on Demo



# KTH Social and Facebook

# Personal Presentations

# Questions on Course Structure?



# Review of AGI14

- Intended Learning Outcomes:
  1. Collaborate to build original and stable projects that combine methods in advanced computer graphics and advanced human-computer interaction;
  2. Communicate the theory and practice of these methods at a technical and a practical level;
  3. Provide informed constructive criticism to the development of the projects from other teams;
  4. Demonstrate the projects at large public venues to open audiences.

# AGI14 Grade Assignment

- Project 1 50%
- Project 2 40%
- Assignments 10%
  - < 100 minutes/week
  - Reading
  - Writing
  - Coding
  - Interacting

# Project 1 (50%)

• Proposal	5%	10/9
• Demo	5%	24/9
• Forskar Fredag	10%	26/9
• Deliverable 1	5%	28/10
• ComiCon	10%	30/10
• Open House KTH	10%	5/12
• Deliverable 2	5%	12/12

# Project 2

- Proposal 5% 11/11
- Demo 10% 2/12
- Open House KTH 15% 5/12
- Deliverable 10% 12/12

# Deliverables

- Working VIC Demo
- Code with good comments
- Webpage
  - Description
  - Photos
  - "Making of" documentary (2 minutes)
  - Demo Reel (30 seconds)
  - PR Material: logo, trailer, flyers, posters, catalog...
  - User Testimonials

# Project 2 – Epson Moverio



# MOVERIO

---

A new way of seeing the world

# Project 2

- Fri Nov 7 15-19
- Lectures 15-16
- Epson Moverio Workshop



BREAK

# Suit Me

# Forming Groups

Algorithm?

Four Groups

Matched Content Interests

Mixed Skills

Mixed Technical Interests

# Michelangelo

- Stefan
- Johan B
- Oscar

# Leonardo

- Carl
- Anton
- Johan S

# Donatello

- Søren
- Philip
- Daniel
- Axel

# Megatron

- Christoffer
- Mattias
- Ludwig
- Linnea

# What is a good proposal?

- Project Goal
- Literature Review
- Work Plan
- Risk Assessment
- Presentation



# Proposal for Project 1 Title

Cool  
Photo of  
Student 1

email1@kth.se

Cool  
Photo of  
Student 2

email2@kth.se

Cool  
Photo of  
Student 3

email3@kth.se

Advanced Graphics and Interaction

AGI14

2014/09/10

# Project 1 Title

Really cool image of your project!!



# Outline

- Motivation 1 minute
  - Goals and Challenges 3 minutes
  - Related Work 2 minute
  - Methods and Techniques 4 minutes
  - Discussion 5 minutes
- TOTAL 15 minutes

# Motivation

- Why is this project interesting to me?
- Why is this project interesting to you?
- What do I want to learn by doing this project?
- Why does the world need this project?
- How does this project make the world a better place?

# Goals and Challenges

- Goals
  - What this project accomplishes in the first place
  - What this project accomplishes in 2nd place
  - What this project accomplishes in 3rd place
- Challenges
  - What are the obstacles to attaining goal 1
  - What are the obstacles to attaining goal 2
  - What are the obstacles to attaining goal 3

# Related Work (maybe a Table?)

- Similar cool project number one with image
  - Author
  - Year
- Similar cool project number two with image
  - Author
  - Year
- Similar cool project number three with image
  - Author
  - Year

# Similar Cool Project 1

- Cool video or image demonstrating the proposal.
- Say what the related project was about and how it is related to your proposed project.
- Clearly state what about your project is different from this project.
- Clearly state why these difference matter.
- Only show a video or figure, no text on this slide.

# Similar Cool Project 2

- Cool video or image demonstrating the proposal.
- Say what the related project was about and how it is related to your proposed project.
- Clearly state what about your project is different from this project.
- Clearly state why these difference matter.
- Only show a video or figure, no text on this slide.



# Similar Cool Project 3

- Cool video or image demonstrating the proposal.
- Say what the related project was about and how it is related to your proposed project.
- Clearly state what about your project is different from this project.
- Clearly state why these difference matter.
- Only show a video or figure, no text on this slide.

# Methods and Techniques

- What methods will you use in your project?
- What devices will you use?
- What libraries will you import?
- How will you connect the parts?
- Will you develop anything new that can be contributed back to the world as code or design pattern, etc?
- What interaction paradigms will you use?
- Will you design new interactions or new algorithms?
- You should talk about these methods and techniques on separate slides using as many visual and video aids as possible, keeping a close eye on your time

# Thank you!

## Questions?

Student One {email1@kth.se}

Student Two {email2@kth.se}

Student Three {email3@kth.se}

Teacher {email4@kth.se}

For more information go to: [www.project1.se](http://www.project1.se)

In case they ask

**EXTRA SLIDES**

# Group Members

- Who you are
- Major, graduation year, career goals

# Individual Contributions

- Student 1 will do
  - A lot
  - So much
- Student 2 will do
  - A lot
  - So much
- Student 3 will do
  - A lot
  - So much

# Anything else

# Next Class

- Wed Sept 10 13-15
- Lecture 4 **Proposals**



**BREAK**

# Brainstorming

- Start with idea
- Think of technology supporting
- Take inventory of hardware and skills
- Test feasibility

# PIZZA AND A MOVIE

# Thank you!

[marior@kth.se](mailto:marior@kth.se)

Questions?