Computer Graphics Project

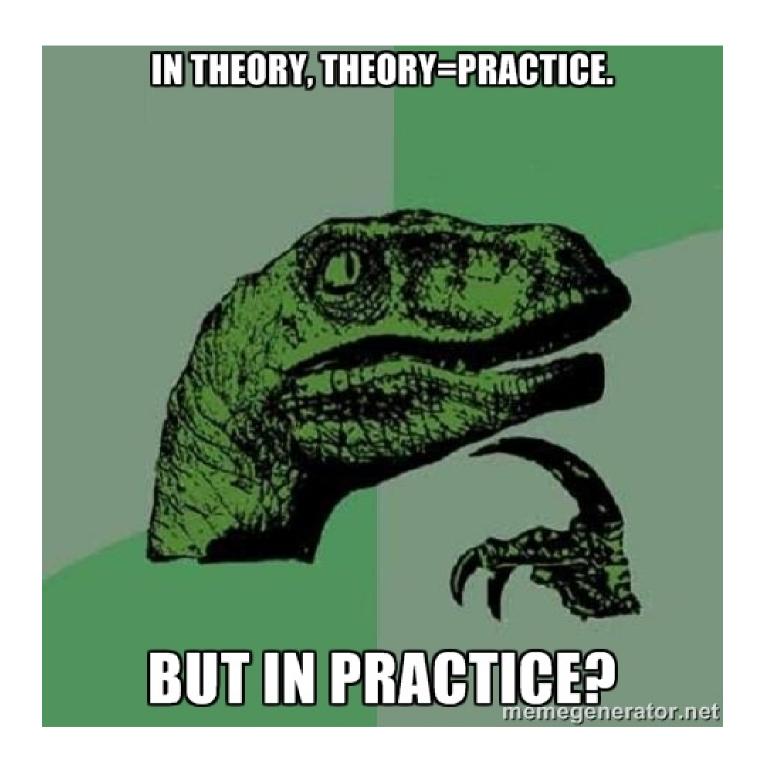
MTAT.03.316

Fall 2018





Raimond Tunnel



Contact Information

Raimond Tunnel – jee7@ut.ee



Organization

- 3 credits course
 - Contact hours $10 \cdot 1.5h = 15h = 0.58$ credits
 - Individual work (63h): = 2.42 credits
 - Project idea 4h = 0.15 credits
 - Project plan and timeline 12h = 0.46 credits
 - Milestones $6 \cdot 7h = 42h$ = 1.62 credits
 - Presentation 5h = 0.19 credits

Organization

- Project idea and plan (~1-2 pages) 14.09
- Milestones:
 - **Group1:** 21.09, 12.10, 26.10, 09.11, 23.11, 07.12
 - **Group2:** 28.09, 19.10, 02.11, 16.11, 30.11, 14.12
 - 6 in total
 - 2 week long
 - 7h of work each
- Final demo 21.12

How to pass?

- Create a project plan
- Set up and achieve your own milestones

Missing those, gets you a strike.

Do not get more than 3 strikes.



Do a presentation of the final result

Missing that is an automatic failure.

Not attending fellow students' presentations gets you a strike.

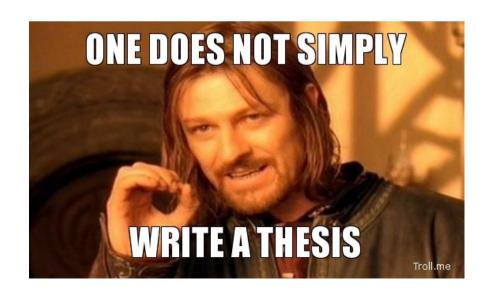
The Final Result

- Some kind of a demonstratable software.
 - Standalone build
- Good project page
 - Clear milestone descriptions and pictures
 - Link to the final build
 - Possible link to the repo
 - Short video of the final build!

Anything you want related to computer graphics.



- Practical work for a thesis
- Although you can not get credited twice for the same work...
- ... chances are that the practical work of your thesis is more then the credits given.



- Work on some pet project you already have.
- You are working on it in secret anyway, right?



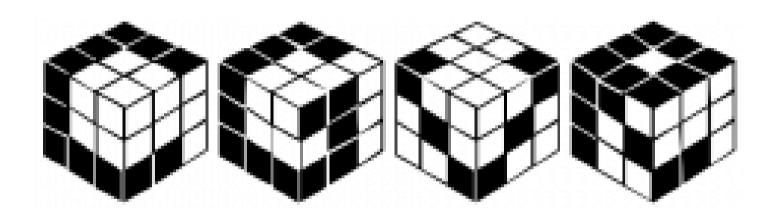
- Continue a project from another course.
- For example the CG course.



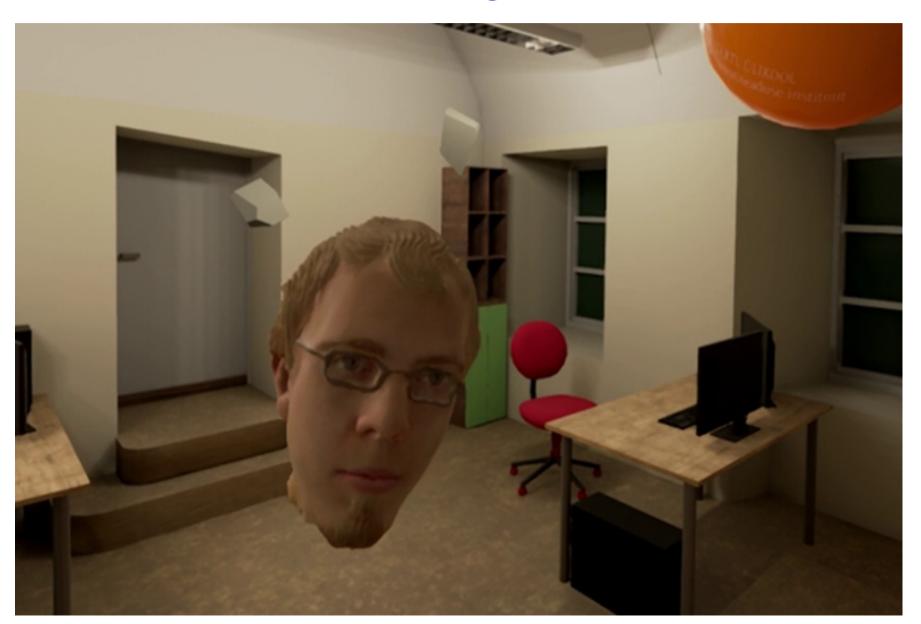
Take on a new project and learn new things!



The CGVR Lab Projects







madis.vasser@ut.ee

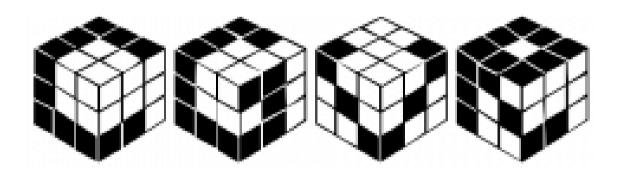
Learn Unreal Engine 4



- Learn Unreal Engine 4
- Possibly get your first VR dev experience



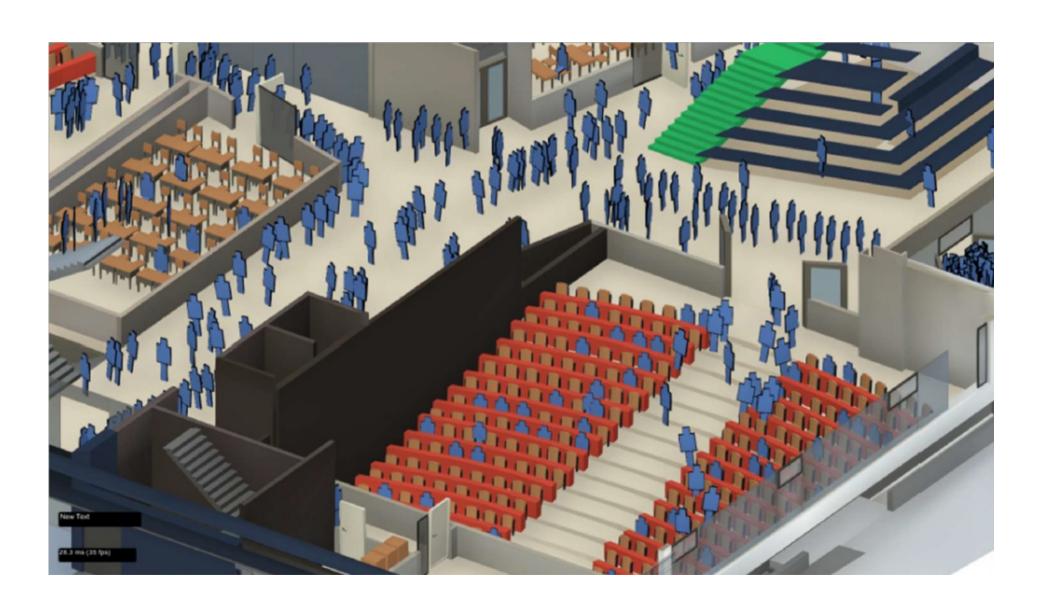
- Learn Unreal Engine 4
- Possibly get your first VR dev experience
- Get access to the CGVR Lab



- Learn Unreal Engine 4
- Possibly get your first VR dev experience
- Get access to the CGVR Lab
- Be assisted by professionals (Madis & Ats)







Advance your skills in Unity



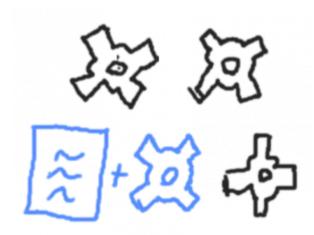
- Advance your skills in Unity
- Get experience working on a non-solo project



- Advance your skills in Unity
- Get experience working on a non-solo project
- Learn how to optimize in Unity



- Advance your skills in Unity
- Get experience working on a non-solo project
- Learn how to optimize in Unity
- Possible BSc or MSc thesis!

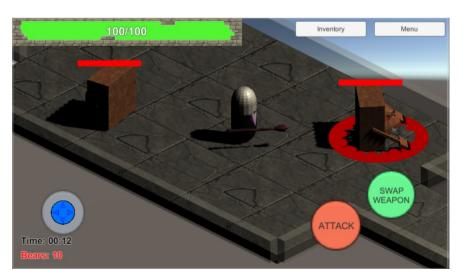


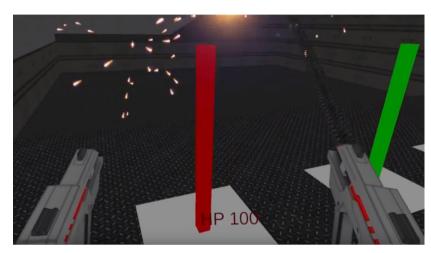
Inspiration

https://cgvr.cs.ut.ee/wp/index.php/student-projects/



Reality: B by Kalle Ever





Vrena by Jens-Stefan Mikson



Crazy Doom Dungeon by Diana Algma and Marko Täht

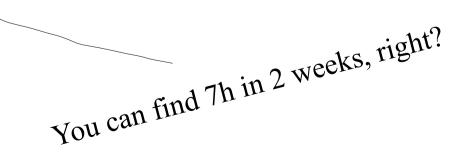
VR Stealth by Andreas Sepp

- Have a plan!
 - You can always change the plan.
 - A plan is better than no plan!
- Plan should consists of:
 - What do you want to have done?
 - General steps in what order you do things.
 - Required technologies (if applicable)
- Sould not consist of:
 - Detailed descriptions of every milestone...

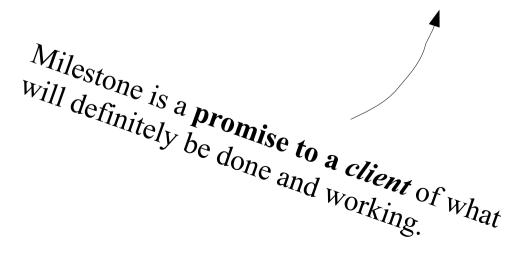


- Milestone
 - What are you going to do in the next 2 weeks?
 - Some specific feature?
 - Include the estimated research time
 - Include the estimated debugging time
 - Make sure you stick to the goals you proposed!
 - Roughly 7h of work.





- Motivation
 - So you want something done by the end?
 - Do a little bit throughout the semester.
 - Little bit means a new feature in 2 weeks.
 - Does not have to be a big feature ...
 - ... but does have to work!





When in trouble: ASK FOR HELP!

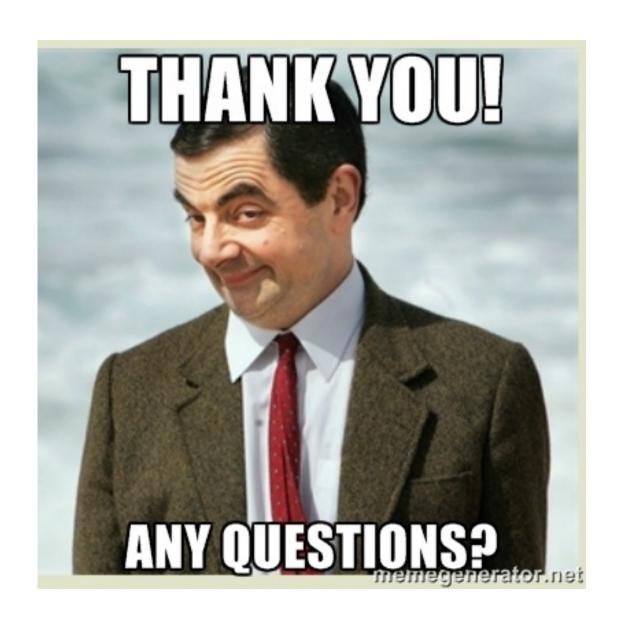


- Also:
 - Keep your milestones very small, but concrete!
 - Do not restart or permanantly delete your project!
 - Ask for help from:
 - CGVR lab people (Ats, Madis and Raimond)
 - Fellow students
 - Be positive!

- Final Presentation
 - Finally you have implemented ~6 features
 - This means that you probably have a pretty solid result
 - Show this result to others
 - Compare it with your original project plan
 - Does not have to match
 - Think about how to continue...



Questions?



Your Project?

- What do you call it?
- Which group will you be in?
- Want a joint project with another student?

