Computer Graphics Project

MTAT.03.316

Fall 2017

Raimond Tunnel
IN THEORY, THEORY = PRACTICE.

BUT IN PRACTICE?
Contact Information

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Organization

• 3 credits course
  • Contact hours $10 \cdot 1.5h = 15h = 0.58$ credits
  • Individual work (63h):
    – 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) – 15.09
- Milestones – 29.09, 13.10, 27.10, 10.11, 24.11, 08.12
  - 6 in total
  - 2 week long
  - 7h of work each
- Final presentation – 15.12, 22.12
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.
What to do?

- Anything you want that is related to computer graphics.
What to do?

- Practical work for a thesis
- Although you can't get credited twice for the same work...
- ... chances are that the practical work of your thesis is more than the credits given.
What to do?

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

- Continue a project from another course.
- For example the CG course.
What to do?

• Take on a new project and learn new things!
New Project Ideas

- APT Game Generator projects
  - Meet competent people
  - Have fun together
  - Create awesome stuff

- [https://www.facebook.com/groups/GameGenerator/](https://www.facebook.com/groups/GameGenerator/)
- [http://aptgg.ee/projects](http://aptgg.ee/projects)
- [http://aptgg.ee/team-finder/](http://aptgg.ee/team-finder/)
- Meetings every Monday at 18:00 in Aparaaditehas
New Project Ideas

- APT Game Generator projects
  - Tribocalypse VR
  - ColOrigami
  - Melancholy
  - Mind Stone
  - ...

New Project Ideas

● Previous unfinished CG course projects
  ● https://docs.google.com/spreadsheets/d/1hOX4SufXOnJAJu7_SREENkpovLUjzoPEnjsIOlfv9ZQ/edit#gid=0
  ● VideoROI – display video frame, define masks on it
    richard.meitern@ut.ee
  ● Ahhaa 3D RollerCoaster – procedurally generated path
    richard.meitern@ut.ee
  ● Lens Distortion Removal – calculate and remove distortion
    hendrik@kalderafx.com
  ● Brain Data Visualization – Visualize a rotatable brain
    ilya.kuzovkin@gmail.com
  ● Paabel VR – Improve the VR demo for the CGVR lab
    madis.vasser@ut.ee
Inspiration

- SpaceRacer (APT Game Generator)
  - [https://protosity.wordpress.com/2015/12/14/spaceracer-game-project-unreal-engine-4/](https://protosity.wordpress.com/2015/12/14/spaceracer-game-project-unreal-engine-4/)

- Tribocalypse VR (started in Global Game Jam 2016)
  - [http://fb.com/Tribocalypse](http://fb.com/Tribocalypse)

- Mythos of the World Axis (APT Game Generator)
  - [https://www.oculus.com/experiences/rift/1221236131237268/](https://www.oculus.com/experiences/rift/1221236131237268/)

- Games from Ludum Dare 38 and 39
Project Management

• 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)
Project Management

• 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.

You can find 7h in 2 weeks, right?
Project Management

● 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!

Milestone is a promise to a client of what will definitely be done and working.
Project Management

- When in trouble: **ASK FOR HELP!**

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

- 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?

THANK YOU!

ANY QUESTIONS?