Computer Graphics Project

MTAT.03.316

Fall 2016

Raimond Tunnel
IN THEORY, THEORY = PRACTICE.

BUT IN PRACTICE?
Contact Information

- Raimond Tunnel – jee7@ut.ee
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 6-7 = 42h = 1.62 credits
    - Presentation – 5h = 0.19 credits
Organization

- Project idea and plan (~1-2 pages) – 07.09
- Milestones – 21.09, 05.09, 19.10, 02.11, 16.11, 28.11
  - 6 in total
  - 2 week long
  - 6h of work each
- Final presentation – 07.12, 12.12
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.

"ANYTHING IS POSSIBLE"

FALSE. YOU CAN'T RIDE A SNAIL INTO THE SUN
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.

ONE DOES NOT SIMPLY WRITE A THESIS
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/
• http://aptgg.ee/projects
• https://goo.gl/mbS0QR
• Meetings every Monday at 18:00 in Aparaaditehas
New Project Ideas

- APT Game Generator projects
  - Tribocalypse (also in VR)
  - ColOrigami
  - SpaceRacer
  - Jaanipäev
  - ...

![Image of Tribocalypse](image1)

![Image of ColOrigami](image2)

![Image of SpaceRacer](image3)

![Image of Jaanipäev](image4)
New Project Ideas

- Previous unfinished CG course projects
  - https://docs.google.com/spreadsheets/d/1Os1s6VmcMiX8GH8zjspsEhXnMAHdMrQYoCW7OA9SKzQ/edit
  - VideoROI – display video frame, define masks on it
    richard.meitern@ut.ee
  - Ahhaa 3D RollerCoaster – procedurally generated path
    richard.meitern@ut.ee
  - Ahhaa 4D VR Cinema – VR experience for Ahhaa
    akurvet@ut.ee
  - Lens Distortion Removal – calculate and remove distortion
    hendrik@kalderafx.com
  - Brain Data Visualization – Visualize a rotatable brain
    ilya.kuzovkin@gmail.com
Inspiration

- **SpaceRacer (APT Game Generator)**
  - https://protosity.wordpress.com/2015/12/14/spaceracer-game-project-unreal-engine-4/
- **Tribocalypse (started in Global Game Jam 2016)**
  - http://fb.com/Tribocalypse
- **Mythos of the World Axis (APT Game Generator)**
  - https://share.oculus.com/app/mythos-of-the-world-axis
- **Games from Ludum Dare 35 and 36**
  - http://aptgg.ee/ludum-dare-36/
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 6h of work.

You can find 6h 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!
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?