# **ED Workshop**

**Useful Games** 



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### **Design Process & Technical Exercises**

- Design process and technical exercises are organised in parallel
- Technical exercises are organised weekly, and supervised by tutors at Sähköpaja space
- Assistants are available at particular times
  - This week at least Thu 12-14 & 14-16, Fri 10-12 (link on MyCo)
- Exercises are found on MyCourses (at Sähköpaja the printed instructions will be only in Finnish)
  - You don't need your team in the exercises grouped on the spot



#### **Get a Dedicated Assistant**

 You should negotiate with the assistants at the Sähköpaja space that one becomes your team tutor over the spring



#### **Common Sessions**

#### (tentative schedule)

ED Workshop	(Wednesdays	10-12 @TU5
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- 1. Kick-off
- 2. Useful Games Workshop
- 3. Ideation Workshop
- 4. Gaming Workshop
- 5. Physical Forms Workshop
- 6. Concept Review
- 7. 3D Modelling Tutorial
- 8. Team Tutoring
- 9. Team Tutoring
- 10. Team Tutoring
- 11. Team Tutoring
- 12. Prototype Presentations
- 13. User Testing workshop

#### Sähköpaja (Mondays 10-12 @TU2) in FINNISH

- 1. Introductions
- 2. Teaming up, Arduino examples
- 3. Basics of Arduino programming
- 4. Sensors
- 5. 3D printing and OpenSCAD
- 6. Aalto Ventures Program (AVP)
- 7. Aaltonaut, prototyping
- 8. Arduino buses (SPI, I2C, UART)
- 9. Radio technology and Freakduino
- 10. Arduino radios
- 11. Laser cutting, PCB making
- 12. Basics of electronics
- 13. User interfaces, measuring tools



## **Project Wiki**

- Wiki is used for documenting the key phases and outputs. It should include:
  - Team introduction
  - Focus of the team
  - Presentation files (with pictures of the process)
  - Links to (re-)sources (code, schematic)
- Link to Wiki pages is found on the course MyCo page
- The Wiki pages can be filled later in the project



## **Learning Diary**

- Remember to keep writing your thoughts!
- Wiki can be done later, but you need to document carefully. Diary
  is a good way to document the process in your own point of view

   with additional personal reflections and resources.
- Learning diary is your individual process & outcome whereas the Wiki is a team thing
- And keep track of time use with the hour sheet



## The project

- You will be creating your own "Useful Game" in the project
- It needs to use "Physical Computing", e.g. an embedded device with a microcontroller (Arduino platform recommended)



## About the design process

- Now we are <u>studying the context</u> of useful games
- It is important at this stage to hold jumping ahead into only one option, but to see the whole and draw inspiration



## **Useful Games Inspiration**

- 1. While you listen to the others Make your own mindmap
- 2. We shall then consolidate these with analytical questions



### **Questions on our material**

- What kinds of purposes are games used for?
- What kinds of elements can we identify?
- What kinds of dimensions can we find?

What design spaces can be outlined?



#### **Next time**

3 rounds of creative exercises á 30 min. facilitated by the teams

0 round:

**Priming** 

1st round:

idea generation (Team 1), e.g. Brainstorming

2nd round:

idea analysis (Team 2), e.g. SWOT

3rd round:

idea evolution (Team 3), e.g. SCAMPER

(Keep in mind that we'll have a 'playing' workshop after next week)



#### **Next time**

#### Pick one method from here:

https://www.mycoted.com/Category:Creativity Techniques

https://www.mindtools.com/fulltoolkit.htm

