

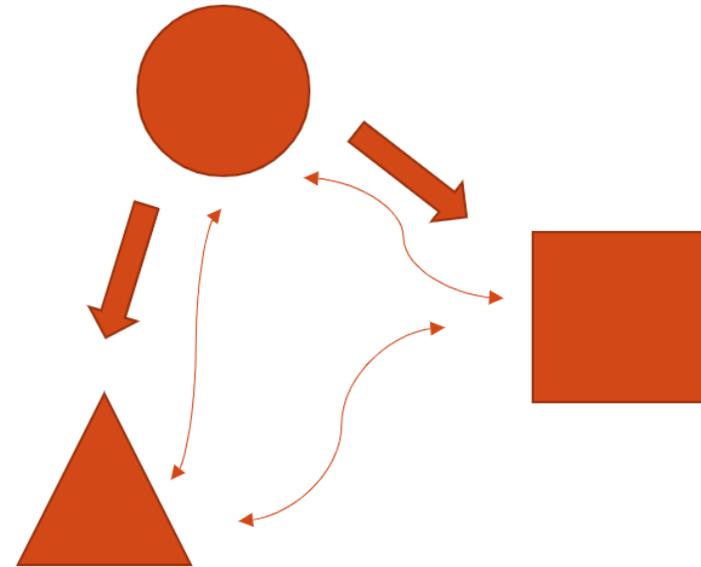
3 CASE STUDIES "INTERACTION IN ONLINE LEARNING"



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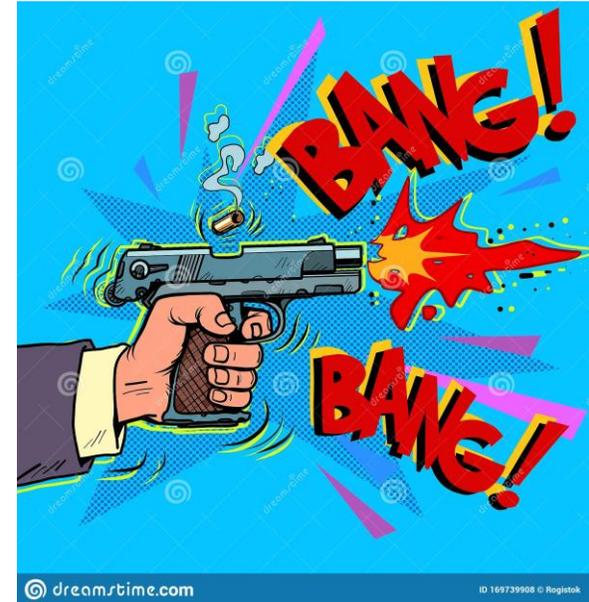
OBJECTIVES & PLANNED OUTCOMES

- The aim of this presentation is to explain how we have managed to create interaction in online learning in three different disciplines
- After the lecture students are aware of some solutions in creating interaction in online learning in contrasting disciplines
 - Pros and cons of the chosen methods
 - When to use them/When not



CASE STUDIES

- 1: Laboratory exercises online in a virtual space with varying forms of teaching material
- 2: Kanban concept in project-oriented courses to facilitate interaction in remote teaching
- 3: Experiences for participating into meet a researcher – service



<https://www.dreamstime.com/shot-gun-comic-style-attack-bullet-attack-shot-gun-comic-style-attack-bullet-attack-pop-art-retro-illustration-image169739908>



1: 'LABORATORY EXERCISES ONLINE IN A VIRTUAL SPACE WITH VARYING FORMS OF TEACHING MATERIAL'

- LINK FOR YOU TO TRY NOW:
 - lab.aalto.fi/common
 - PICK A SUITABLE LANGUAGE AND GO AROUND THE LABORATORY SPACE, GET A FEEL OF WHAT IT'S ABOUT
 - YOU HAVE ABOUT 90 SECONDS TO EXPLORE THE LAB AND THEN WE WILL CONTINUE



1: 'LABORATORY EXERCISES ONLINE IN A VIRTUAL SPACE WITH VARYING FORMS OF TEACHING MATERIAL'

- [HTTPS://AALTO.CLOUD.PANOPTO.EU/PANOPTO/PAGES/VIEWER.ASPX?ID=42EB2143-4220-4021-91D4-AD0200CFB6C4](https://aalto.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=42EB2143-4220-4021-91D4-AD0200CFB6C4)

OR

- [HTTPS://WWW.YOUTUBE.COM/WATCH?V=CSFU1TOAFG4](https://www.youtube.com/watch?v=CSFU1TOAFG4)

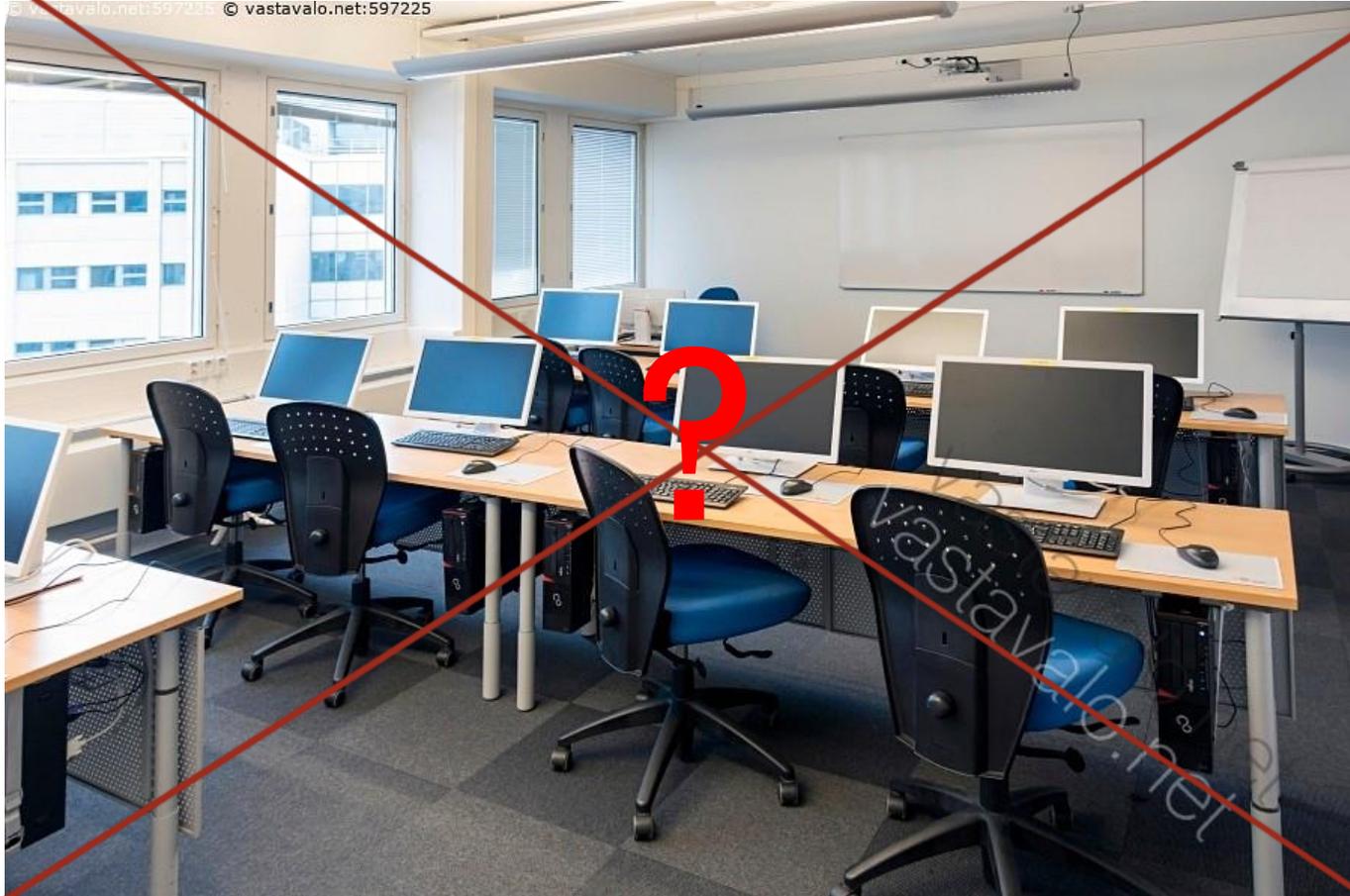


2: KANBAN CONCEPT IN PROJECT-ORIENTED COURSES TO FACILITATE INTERACTION IN REMOTE TEACHING

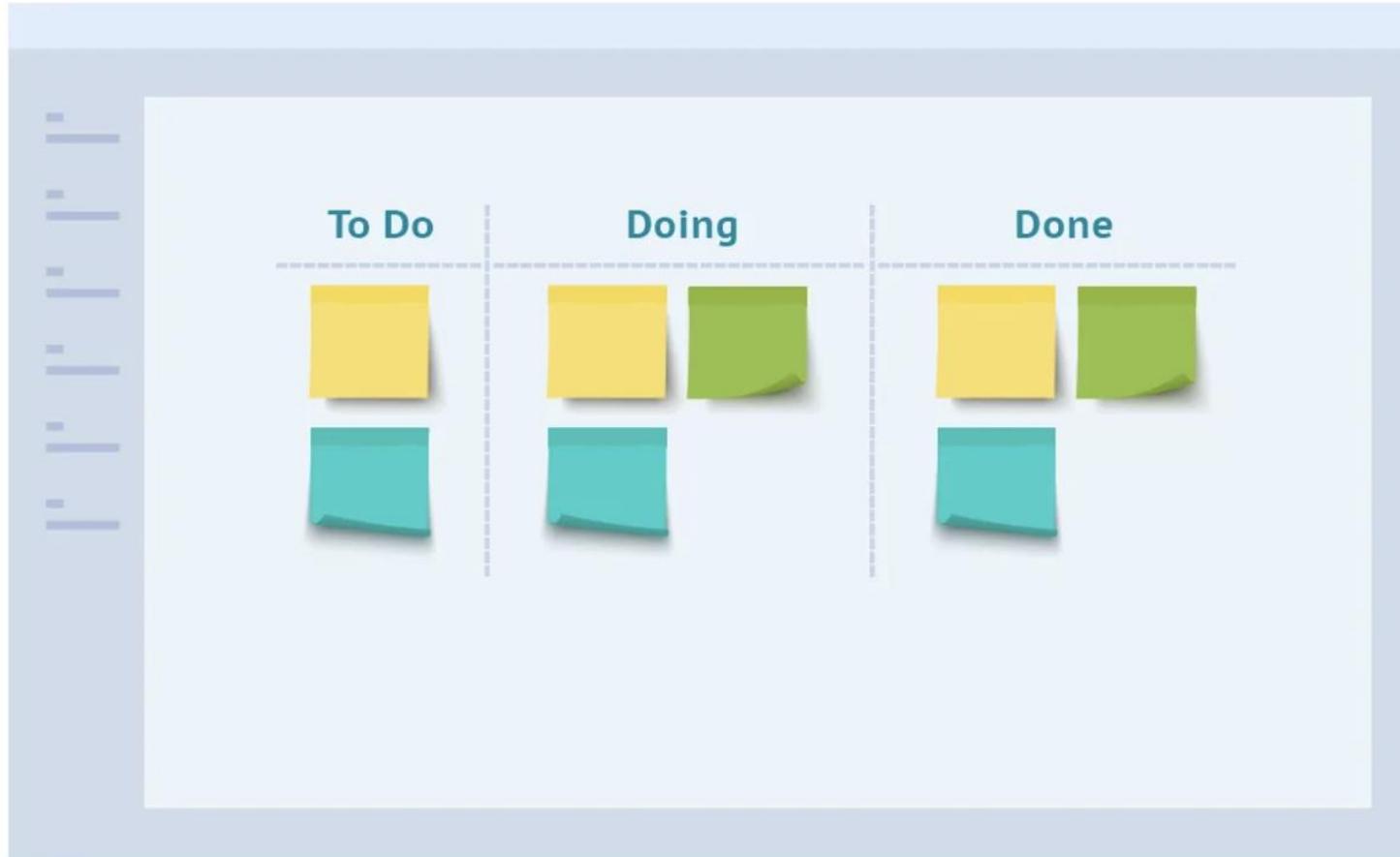
Interactive exercise session in
<https://edu.flinga.fi/s/EUDZ8EQ>



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What is Kanban?



- Visualize the work flow
- Limit WIP (Work in Progress)
- Manage Flow
- Make Process Policies Explicit
- Implement Feedback Loops
- Improve Collaboratively, Evolve Experimentally
- Widely used in software engineering

<https://www.digite.com/kanban/what-is-kanban/#origin-of-kanban>



1 To do

- Choose a project, and find the relevant code for the repository (Code tab).
- Form a team, and sign up to the team kanban.
Be creative and have fun! Invent a descriptive team name, for example.
- Create your own list of tasks. You are supposed to work on the codes related to the project over github, and decide on your own preferred workflow (all work on a main branch, you create your own branches and then merge)
- Follow-up the workflow in kanban
- Write a report
- Prepare a presentation

2 In progress

- The Onion project (Mara, Jörn, Mariangela, Leevi)**
2 of 7
#9 opened by mjkorpi
- The slicer team (Fred, Oskar, Johannes)**
4 of 8
#10 opened by mjkorpi

1 Done

- The tall box team (Sami, Miikka, Long)**
6 of 6
#11 opened by mjkorpi

Filter cards

The Onion project (Mara, Jörn, Mariangela, Leevi) #9
Opened in mjkorpi/Example-course

mjkorpi commented 12 days ago

- Brainstorm about the needed improvements
- Assign tasks
- Write the required functions
- Find out a suitable data set to experiment with
- Produce plots
- Write a report
- Prepare a presentation

HOW CAN IT BE USED IN TEACHING?

- Assign students/teams **tasks as cards** that everybody can **interactively update** and **follow**. Most platforms allow for attaching pictures, files, reports, presentations....



Let us practise!

<https://edu.flinga.fi/s/EUDZ8EQ>





KANBAN: PROS AND CONS

- Works best if you have **project work and/or exercises** in your course
 - Motivates, engages, increases interaction
 - Makes it easier for the teacher to follow up the progress
 - Especially suited in courses where some coding is required, but one could easily imagine that <coding> could be replaced by building, designing, doing labwork,
- MyCourses-type platforms provide a more suitable workspace for **classroom-type** teaching.
 - To implement all features available in those platforms would be too much trouble vs. the workload required.

3: 'MEET A RESEARCHER' – SERVICE EXPERIENCES

- Operated by Young Academy Finland
 - Purpose of the service is to make researchers' school visits as easy as possible
 - Provides researchers an easy channel to take part in science education.
-
- Lecture content will be planned with the teacher
 - I was contacted by a Teacher from X school to provide a virtual lecture about natural sciences for classes 7-9...



<https://nuortentiedeakatemia.fi/en/meet-a-researcher/>



3: WHAT WAS PLANNED..

- My vision was to create **very interactive teaching session** in which
 - Students get involved already before the lecture by sending me questions beforehand by email
 - I will provide customized answers for each student by using their names while answering their questions
 - I will pause often to ask questions/opinions from the students
- I made clear for the teacher that I would need him/her to:
 - force students to send me questions beforehand,
 - organize the lecture so that each student (or group of two) has camera and audio on
- I did obtain questions from the students by email as planned before the lecture, but...



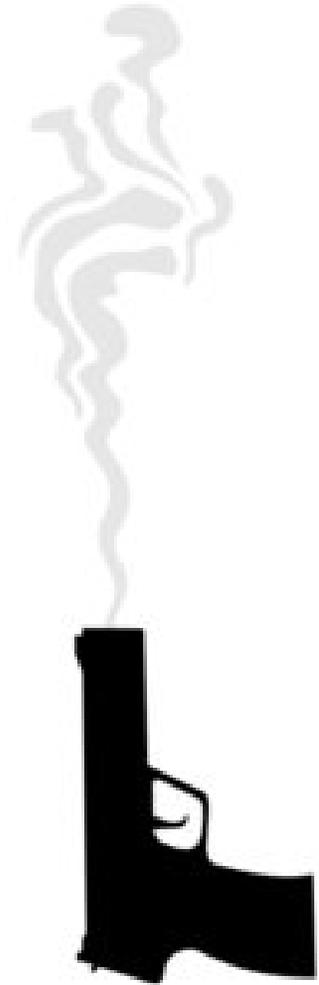
3: HOW IT WENT....

- Teacher sent Teams invitation 7 mins after the lecture had started..
- No camera was on..
- Audio was on only in a computer that was located in the front of the room
 - > so, I could not communicate with anyone during the lecture
- Few times I forced the teacher to walk to the computer to comment on something related with the content..
- After the lecture the teacher appeared happy, and I felt betrayed..



3: TAKE HOME MESSAGE

- If one is planning to give lecture via Meet a researcher service:
 - do not expect too much..
 - try to make sure the teacher understands your motivation to give free lectures..



<https://stock.adobe.com/search/images?k=gun%20smoke%20vector>



SUMMA SUMMARUM

- Building virtual spaces has some barrier of entry, but new projects are rather effortless after some groundwork has been done..
- Kanban works well but requires a lot more planning and troubleshooting than actually working together in a computer class..
- Everything planned does not always work out as planned..

