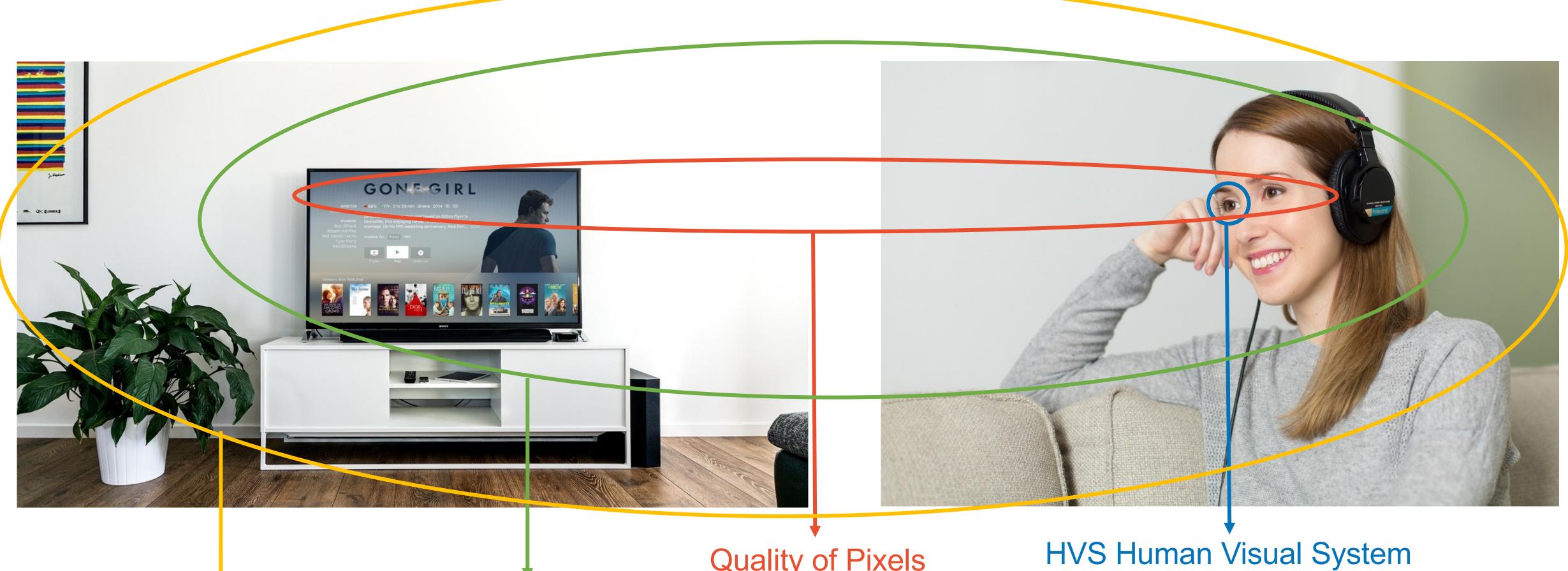


More Ecologically Valid Subjective Experiments Lucjan Janowski, Jakub Nawała, Rafał Figlus

5/9/22

Different Measurement Points



Quality of Experience

User Experience

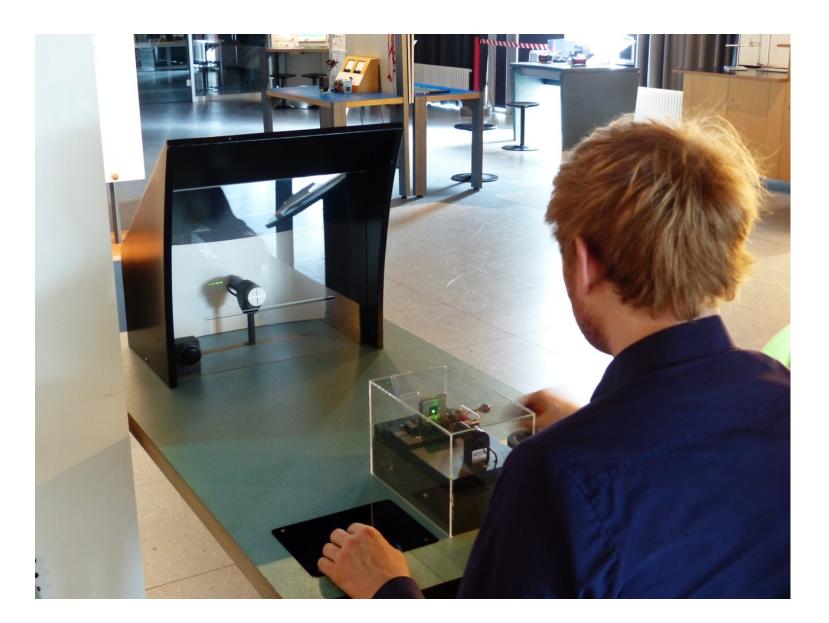
Quality of Pixels Quality of Display?



пſЬ

- HVS: How much gaussian blur must be added that you are not able to recognized a face
 - Specific lab environment



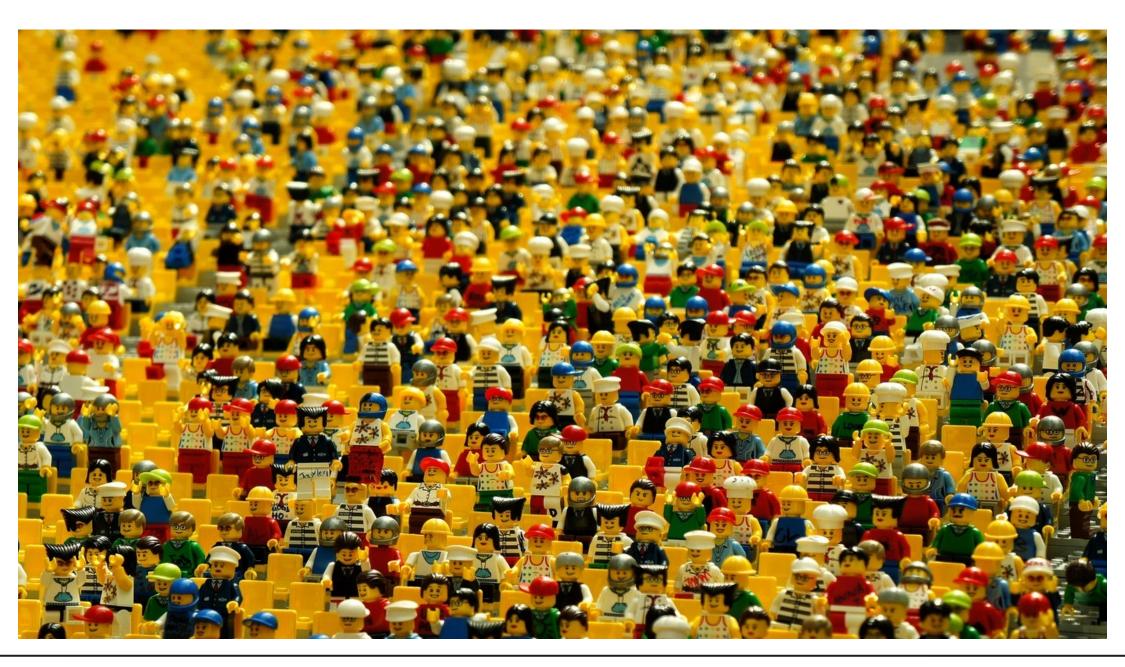


Examples

- HVS: How much gaussian blur must be added that you are not able to recognized a face
 - Specific lab environment
- QoP: Which compression setting is the best?
 - Lab or similar environment, comparing the same sources

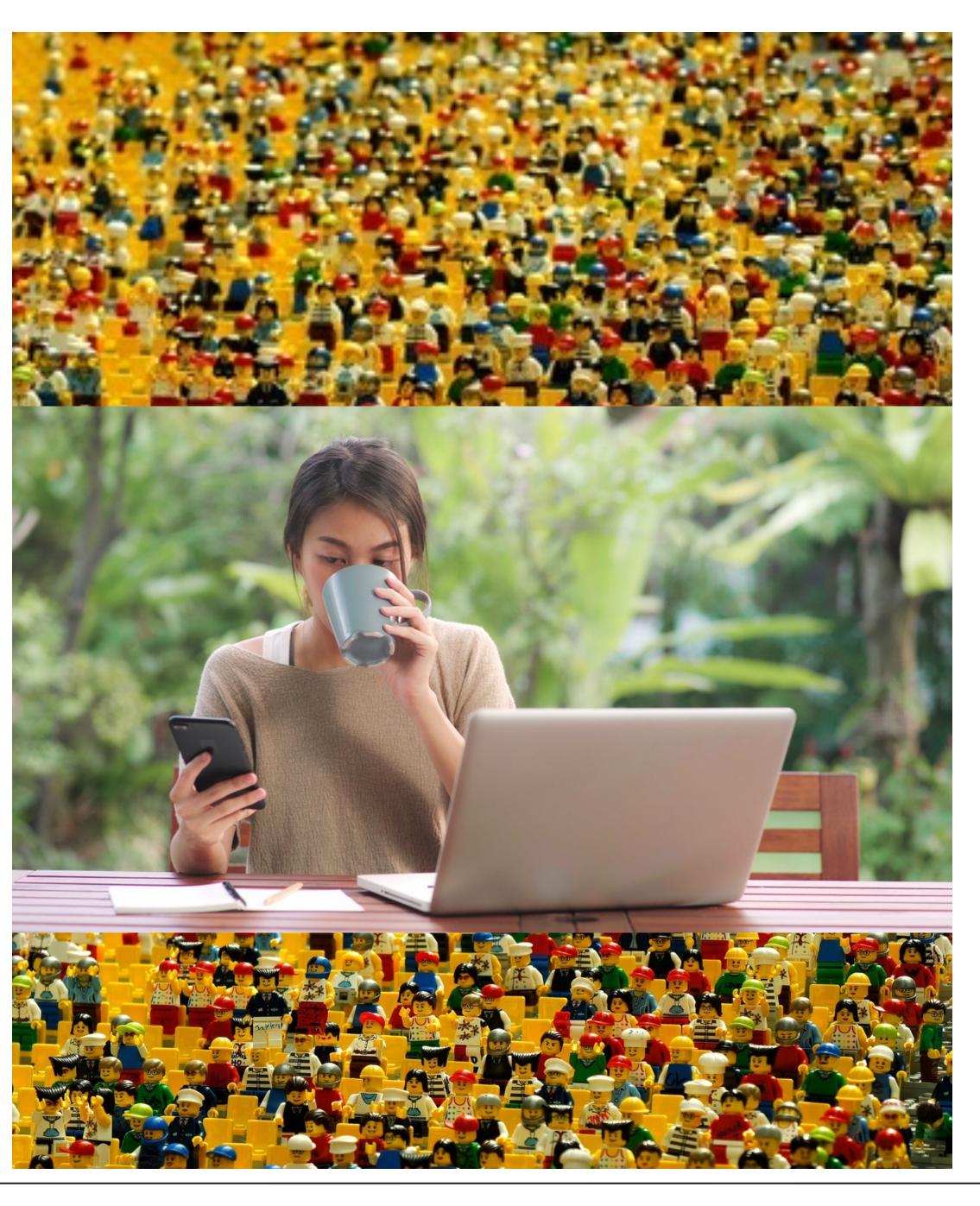






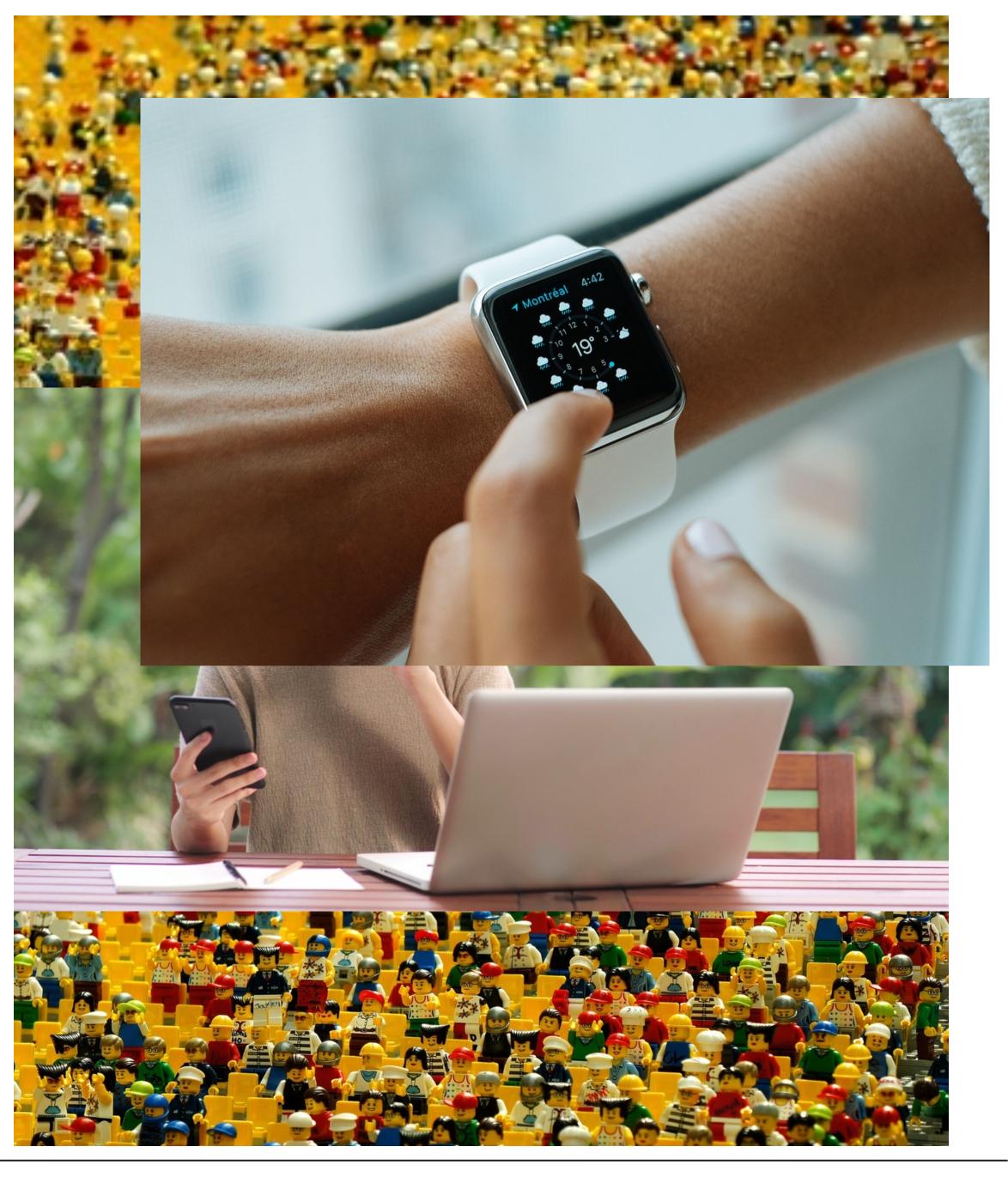
Examples

- HVS: How much gaussian blur must be added that you are not able to recognized a face
 - Specific lab environment
- QoP: Which compression setting is the best?
 - Lab or similar environment, comparing the same sources
- QoE: Which compression is best considering the current context of the user?
 - Watching what a user is doing



Examples

- HVS: How much gaussian blur must be added that you are not able to recognized a face
 - Specific lab environment
- QoP: Which compression setting is the best?
 - Lab or similar environment, comparing the same sources
- QoE: Which compression is best considering the current context of the user?
 - Watching what a user is doing
- UX: How to make a better product?
 - Watching what a user is doing



Experiments You Could Repeat

- ACR Without the Scale
- Your YouTube Our Lab



ACR Without the Scale

- Problem to solve:

 - We get very limited information from a tester The process of selecting an answer is unknown
- Solution:
 - Thinking aloud

 - A preselected world is changed to a speech description • It is ok to start description seeing the video • We see the evolution of the scoring system

 - We see all quality dimensions
 - The rest of the experiment is the same
- Problems:
 - Data analysis is more challenging
 - We do not know if testers really say something

ACR Without the Scale The Interface



https://github.com/Qub3k/avrateNG

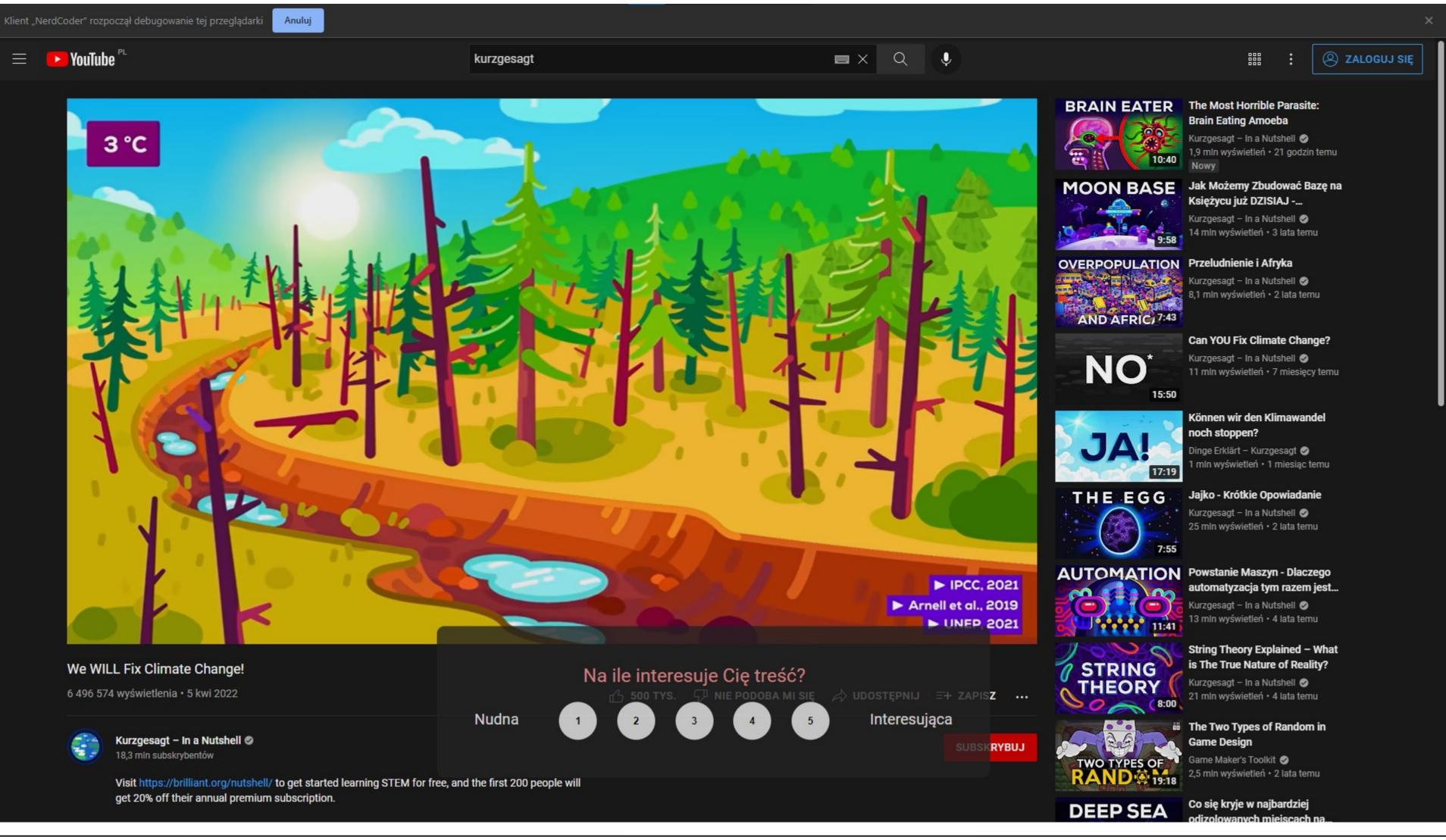
(which is a modified version of https://github.com/Telecommunication-Telemedia-Assessment/avrateNG)



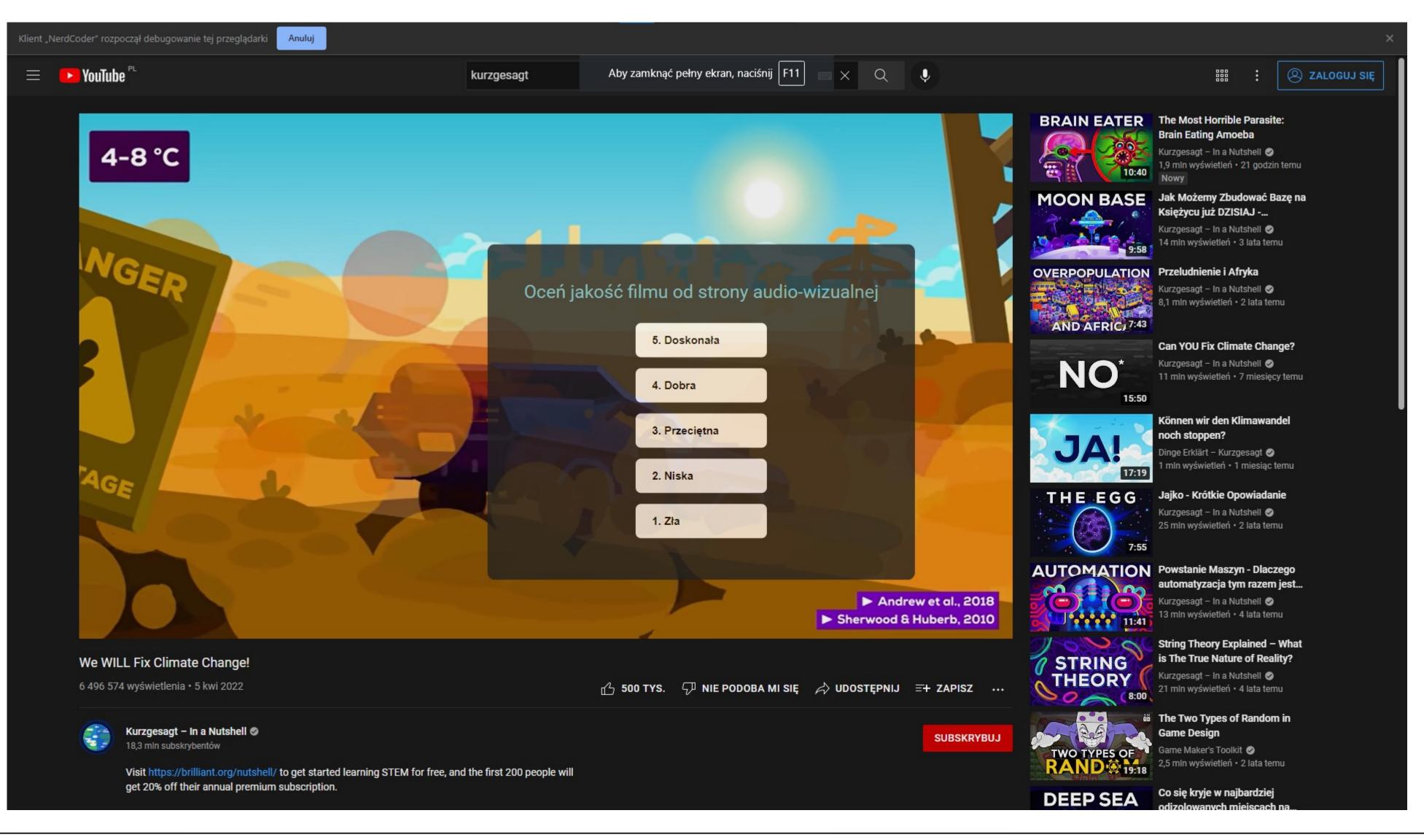
Your YouTube Our Lab

- Problem to solve:
 - 10 second videos without the audio are not what a user watches
 - Normally we select the content based on our preferences
 - We are not forced to see the whole content
- Solution:
 - A rare popup with a quality question
 - A user selects the content
 - Watching makes them forget about the task
 - Real experience
 - We use a standard quality scale
- Problems:
 - People do not just watch YouTube
 - People are so much into the experience that quality is forgotten
 - It is difficult to follow what is the objective quality

Your YouTube Our Lab The Interface



Your YouTube Our Lab The Interface



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