Measuring the quality of a machine learning based silhouette extractor

Participation in Peter Remøy Paulsens master thesis

*Må fylles ut

Introduction

Thank you very much for your participation in this experiment. This study will last approx. 15 minutes.

During this experiment you will be watching 12 videos processed by a machine learning model for extracting the silhouette of a person. The 12 videos are constructed for the evaluation purpose.

The experiment is divided into a few parts:

- 1) You will sign the consent form
- 2) You will fill in a demographic questionnaire that captures mostly statistical data. Afterwards, you will start the evaluation itself.
- 3) You will watch a video and answer some questions about the video you just saw
- 4) You will repeat step 2) for all 12 videos
- 5) You will lastly be able to add any additional feedback regarding the contents of the experiment

Please note, you are not being evaluated, but you are evaluating the videos!

All the data that you provide and we are recording during this experiment will be pseudonymized. During the experiment you always have the chance to leave the study without the need to provide any reason. In case you have questions during the experiment at any point please feel free to ask the experimenter.

And now: Have fun during the experiment!

Consent form

I have read the introduction information for the study Measuring the quality of a machine learning based silhouette extractor. I will participate in this study. I was informed that the following data will be obtained today during this study from me: Demographic Questionnaire and Opinion Questionnaire. I approve that all recorded data will be saved and will be used pseudonymized (e.g. identification data will be stored separately from recorded data and only be accessible to a small circle of authorized personnel) for research analysis. All data I give will be handled confidentially. All information will be used for research purposes only. Personal data will not be given to any third party.

I am aware that participating in this study is voluntary and I can withdraw anytime without giving any reason. Doing so I will not suffer any disadvantage.

Additionally, I am aware that I will handle everything confidentially, I hear and see today, and I will not give any information to other people.

1.	Have you signed the consent form? *
	Markér bare én oval.
	Yes

Demographic mapping

This section will gather some info about you as a participant.

The data is anonymous and will not be mapped back to you.

2.	How old are you?
	Markér bare én oval.
	Under 18
	18 - 24
	25 - 34
	35 - 44
	45 - 54
	55 - 64
	Older than 65
3.	Gender
	Markér bare én oval.
	Female
	Male
	Other
	Prefer not to say
4.	Education
	Markér bare én oval.
	Primary school
	High school or equivalent
	Some higher education, no degree
	Two year-degree

Higher than master's degree

Bachelor's degree

Master's degree

5.	What is your occupation? If you are a student, please state the category most fitting to your study. Don't answer if you're not working.
	List of categories collected from https://utdanning.no/interesseoversikt
	Markér bare én oval.
	Alternative treatment
	Children
	Construction
	Design
	Animals
	Electronics
	Fishing and aquaculture
	Science and innovation
	Health
	History
	Craftsmanship
	Sports
	Industry
	IT and computers
	Work abroad
	Climate and environment
	Office and administration
	Arts and culture
	Agriculture
	Law and order
	Air space
	Aviation
	Food and drinks
	Media and communications
	Mechanics
	People
	Nature
	Oil, gass and energy
	Pedagogy

) Science

Tourism
Religion
Sales and service
Society
Security and emergency preparedness
Shipping
Beauty and well-being
Language
Technology
Transport
Economics

Video 1 of 12



http://youtube.com/watch?

v=ltD8V6YHuoE

6. How satisfied are you with the quality of the silhouette extraction?
Markér bare én oval.
Completely satisfied

Very satisfied

Moderately satisfied

Slightly satisfied

Not at all satisfied

A definition of artefact

Any error in the perception or representation of any information in the image

7. Did you notice any artefacts with the silhouette extraction?
Markér bare én oval.
Extremely noticable
Very noticable
Moderately noticable
Slightly noticable
Not at all noticable

8. Do you think the artefacts were annoying?
Markér bare én oval.

Extremely annoying
Very annoying
Moderately annoying
Slightly annoying
Slightly annoying

Video 2 of 12



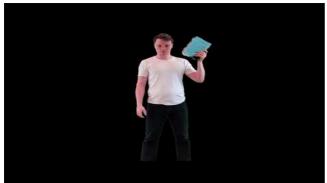
Not at all annoying

http://youtube.com/watch?

v=t4AtEq01mF8

9.	How satisfied are you with the quality of the silhouette extraction?
	Markér bare én oval.
	Completely satisfied
	Very satisfied
	Moderately satisfied
	Slightly satisfied
	Not at all satisfied
10.	Did you notice any artefacts with the silhouette extraction?
	Markér bare én oval.
	Extremely noticable
	Very noticable
	Moderately noticable
	Slightly noticable
	Not at all noticable
11.	Do you think the artefacts were annoying?
	Markér bare én oval.
	Extremely annoying
	Very annoying
	Moderately annoying
	Slightly annoying
	Not at all annoying

Video 3 of 12



v=midiWH7B3Q4

12.	How satisfied are you with the quality of the silhouette extraction?
	Markér bare én oval.
	Completely satisfied
	Very satisfied
	Moderately satisfied
	Slightly satisfied
	Not at all satisfied
13.	Did you notice any artefacts with the silhouette extraction?
	Markér bare én oval.
	Extremely noticable
	Very noticable
	Moderately noticable
	Slightly noticable

Not at all noticable

14.	Do you think the artefacts were annoying?
	Markér bare én oval.
	Extremely annoying
	Very annoying
	Moderately annoying
	Slightly annoying
	Not at all annoying

Video 4 of 12



http://youtube.com/watch?v=LYOD-Ayv-VI

15. How satisfied are you with the quality of the silhouette extraction?

Markér bare én oval.

Completely satisfied
Very satisfied
Moderately satisfied
Slightly satisfied

Not at all satisfied

- Did you notice any artefacts with the silhouette extraction?
 Markér bare én oval.
 Extremely noticable
 Very noticable
 Moderately noticable
 Slightly noticable
 Not at all noticable
- 17. Do you think the artefacts were annoying?

Markér bare én oval.

- Extremely annoying
- Very annoying
- Moderately annoying
- Slightly annoying
- Not at all annoying

Video 5 of 12



http://youtube.com/watch?

v=toRZK4Zd2zE

18.	How satisfied are you with the quality of the silhouette extraction?
	Markér bare én oval.
	Completely satisfied Very satisfied
	Moderately satisfied
	Slightly satisfied
	Not at all satisfied
19.	Did you notice any artefacts with the silhouette extraction?
	Markér bare én oval.
	Extremely noticable
	Very noticable
	Moderately noticable
	Slightly noticable
	Not at all noticable
20.	Do you think the artefacts were annoying?
	Markér bare én oval.
	Extremely annoying
	Very annoying
	Moderately annoying
	Slightly annoying
	Not at all annoying

Video 6 of 12



v=j9HAYcmaHfo

21.	How satisfied are you with the quality of the silhouette extraction?
	Markér bare én oval.
	Completely satisfied
	Very satisfied
	Moderately satisfied
	Slightly satisfied
	Not at all satisfied
22.	Did you notice any artefacts with the silhouette extraction?
	Markér bare én oval.
	Extremely noticable
	Very noticable
	Moderately noticable
	Slightly noticable
	Not at all noticable

23. Do you think the artefacts were annoying?

Markér bare én oval.

Extremely annoying

Very annoying

Moderately annoying

Slightly annoying

Not at all annoying

Video 7 of 12



v=A6eBLW0Wioo

http://youtube.com/watch?

- 24. How satisfied are you with the quality of the silhouette extraction?

 Markér bare én oval.
 - Completely satisfied
 - Very satisfied
 - Moderately satisfied
 - Slightly satisfied
 - Not at all satisfied

Did you notice any artefacts with the silhouette extraction?
Markér bare én oval.
Extremely noticable
Very noticable
Moderately noticable
Slightly noticable
Not at all noticable

26. Do you think the artefacts were annoying?
Markér bare én oval.

Slightly annoying

Not at all annoying

Extremely annoying

Moderately annoying

Very annoying

Video 8 of 12



http://youtube.com/watch?

v=4C0TVFPapGU

27.	How satisfied are you with the quality of the silhouette extraction?
	Markér bare én oval.
	Completely satisfied
	Very satisfied
	Moderately satisfied
	Slightly satisfied
	Not at all satisfied
28.	Did you notice any artefacts with the silhouette extraction?
	Markér bare én oval.
	Extremely noticable
	Very noticable
	Moderately noticable
	Slightly noticable
	Not at all noticable
29.	Do you think the artefacts were annoying?
	Markér bare én oval.
	Extremely annoying
	Very annoying
	Moderately annoying
	Slightly annoying
	Not at all annoying

Video 9 of 12



v=sbgo45c3nfE

30.	How satisfied are you with the quality of the silhouette extraction?
	Markér bare én oval.
	Completely satisfied
	Very satisfied
	Moderately satisfied
	Slightly satisfied
	Not at all satisfied
31.	Did you notice any artefacts with the silhouette extraction?
	Markér bare én oval.
	Extremely noticable
	Very noticable
	Moderately noticable
	Slightly noticable
	Not at all noticable

32. Do you think the artefacts were annoying?
Markér bare én oval.
Extremely annoying
Very annoying
Moderately annoying
Slightly annoying
Not at all annoying

Video 10 of 12



v=Gp4jLwgwWYM

http://youtube.com/watch?

- 33. How satisfied are you with the quality of the silhouette extraction?

 Markér bare én oval.
 - Completely satisfied
 - Very satisfied
 - Moderately satisfied
 - Slightly satisfied
 - Not at all satisfied

34. Did you notice any artefacts with the silhouette extraction?
Markér bare én oval.
Extremely noticable
Very noticable
Moderately noticable
Slightly noticable
Not at all noticable

35. Do you think the artefacts were annoying?
Markér bare én oval.

Video 11 of 12



Extremely annoying

Moderately annoying

Slightly annoying

Not at all annoying

Very annoying

http://youtube.com/watch?v=p_YCR-

<u>OCmQo</u>

36. How satisfied are you with the quality of the silhouette ex				
	Markér bare én oval.			
	Completely satisfied			
	Very satisfied			
	Moderately satisfied			
	Slightly satisfied			
	Not at all satisfied			
37.	Did you notice any artefacts with the silhouette extraction?			
	Markér bare én oval.			
	Extremely noticable			
	Very noticable			
	Moderately noticable			
	Slightly noticable			
	Not at all noticable			
38.	Do you think the artefacts were annoying?			
	Markér bare én oval.			
	Extremely annoying			
	Very annoying			
	Moderately annoying			
	Slightly annoying			
	Not at all annoying			

Video 12 of 12



v=SxBDid4gl3A

39.	How satisfied are you with the quality of the silhouette extraction?			
	Markér bare én oval.			
	Completely satisfied			
	Very satisfied			
	Moderately satisfied			
	Slightly satisfied			
	Not at all satisfied			
40.	Did you notice any artefacts with the silhouette extraction?			
	Markér bare én oval.			
	Extremely noticable			
	Very noticable			

Moderately noticable

Slightly noticable

Not at all noticable

41.	Do you think the artefacts were annoying?			
Markér bare én oval.				
	Extremely ar Very annoyir Moderately a Slightly anno Not at all an	ng annoying bying		
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