

# Data Protection Declaration

## Master Thesis User Study Participation

**Researcher:** Kilian Robert Dennis Vesshoff  
**Contact Information:** vesshoff@uni-bremen.de  
**Institution:** University of Bremen  
**Date:**

Dear Participant,

Thank you for agreeing to participate in my master thesis user study. This study aims to investigate the effectiveness and user experience of a human-robot cooperative drawing system. Your participation is highly valued, and your data protection and privacy are paramount. This declaration outlines how your data will be collected, used, and protected.

## Data Collection

1. **Personal Data:** No personal data that can directly identify you will be collected.
2. **Anonymized Data:** Data collected during the study will be anonymized. This means that all responses and data points will be stripped of any information that could link them back to you as an individual.
3. **Photographs:** Photographs will be taken during the study. These images will be used in the thesis and related publications.

## Data Usage

1. **Purpose:** The data collected will be used exclusively to complete my master thesis, Sketching Together: Designing a co-creative system with a Pen Plotter, and related academic publications.
2. **Storage:** All data, including photographs, will be stored securely on my local computer.
3. **Publication:** Anonymized data and selected photographs may be included in the final thesis, which will be published and accessible to the public.

## Data Protection

1. **Local Storage:** All data will be stored on my local computer, protected by encryption and secure access controls.
2. **Anonymity:** Any identifying information will be removed from the data to ensure your anonymity.
3. **Access:** Only I, Kilian Robert Dennis Vesshoff, can access the raw data. The anonymized data in the thesis will be shared with my academic advisors and may be included in scholarly publications.

## Rights of the Participants

1. **Voluntary Participation:** Participation in this study is voluntary. You may withdraw from the study at any time without any consequences.
2. **Right to Information:** You have the right to request information about the data collected from you at any time.
3. **Right to Withdraw:** You can withdraw your consent to use your data at any time, and your data will be deleted.

## Photographs

1. **Photographs:** Photographs will be taken during the study to document the process and results. These images will be used in the thesis and related publications.
2. **Anonymity:** All photographs will be anonymized to protect your identity. The images will not include identifiable features unless explicit consent is provided.
3. **Usage:** The photographs will be used exclusively to complete my master thesis and related academic publications.
4. **Storage:** All photographs will be stored securely on my local computer, protected by encryption and secure access controls.

By signing below, you acknowledge that you have read and understood the data protection declaration and agree to participate in the study under the above-mentioned terms.

**Participant's Name:** \_\_\_\_\_  
**Signature:** \_\_\_\_\_  
**Date:** \_\_\_\_\_

If you have any questions or concerns about this study or your data, please do not hesitate to contact me at [vesshoff@uni-bremen.de](mailto:vesshoff@uni-bremen.de)

Thank you for your participation.

Sincerely,  
Kilian Robert Dennis Vesshoff  
University of Bremen

# Demographic Questionnaire

Please fill out the following demographic information. Your responses will be kept confidential and used only for this study.

## Participant Information

1. **Age (Leave Blank if you don't want to share it):** \_\_\_\_\_

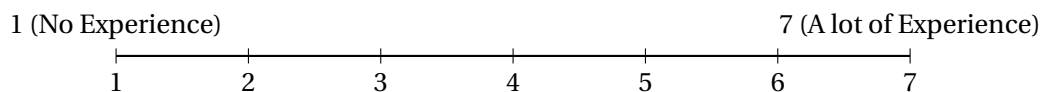
2. **Gender:**

- ☐ Male
- ☐ Female
- ☐ Non-binary
- ☐ Prefer not to say

3. **Field of Study/Occupation:** \_\_\_\_\_

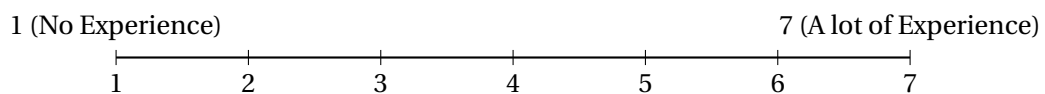
4. **How much experience do you have with co-creative systems?**

This included digital co-creative systems such as Stable Diffusion, DALL-E, or anything where an AI interacts with a Human to create



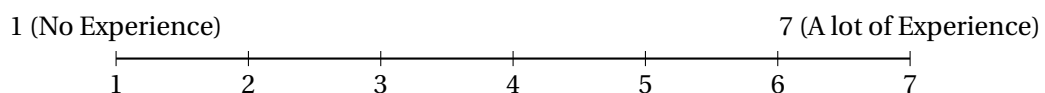
5. **How much experience do you have with creative drawing?**

This included physical drawing on paper or canvas and digital drawing on a tablet or digital drawing device.

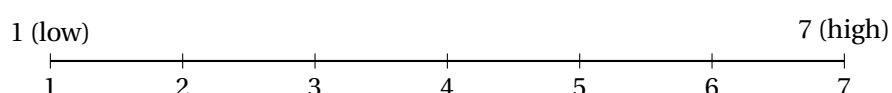


6. **How familiar are you with physical Human-Robot Interactions?**

This includes Industrial Robots, Home Robots like vacuum cleaning robots, educational robots, and assistive robots.

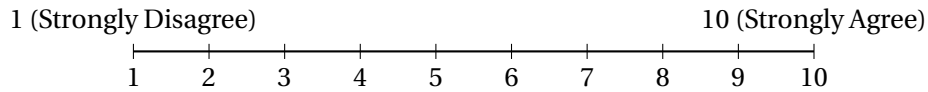


7. **How high are your expectations towards interacting with the Pen Plotter system?**

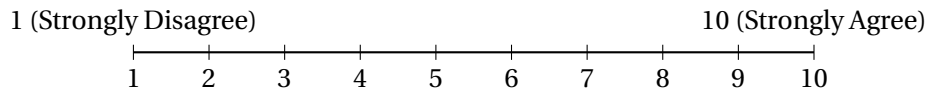


## Please rate your agreement with the following statements:

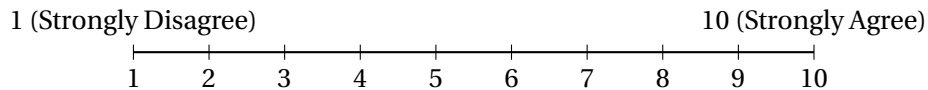
**The system or tool allowed other people to work with me easily.**



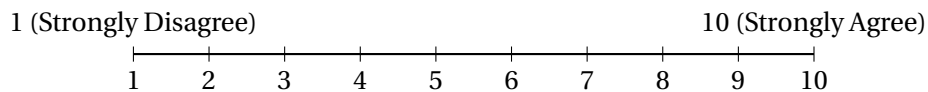
**It was really easy to share ideas and designs with other people inside this system or tool.**



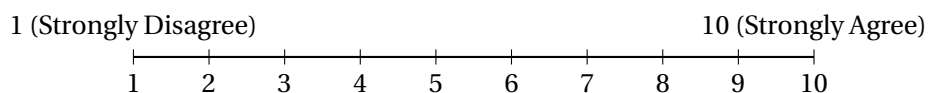
**I would be happy to use this system or tool on a regular basis.**



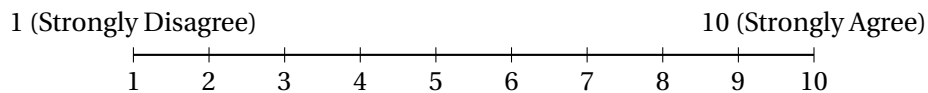
**I enjoyed using the system or tool.**



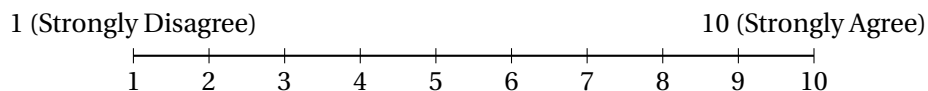
**It was easy for me to explore many different ideas, options, designs, or outcomes, using this system or tool.**



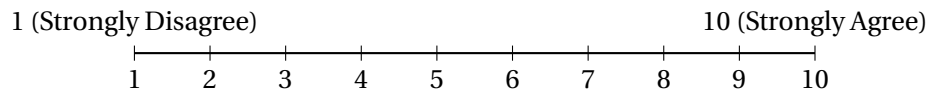
**The system or tool was helpful in allowing me to track different ideas, outcomes, or possibilities.**



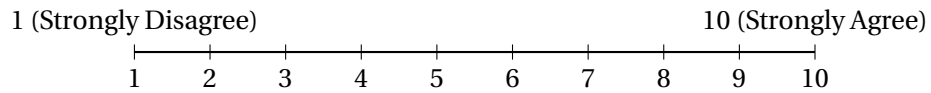
**I was able to be very creative while doing the activity inside this system or tool.**



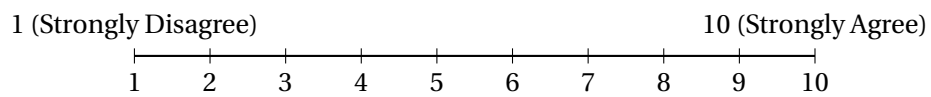
**The system or tool allowed me to be very expressive.**



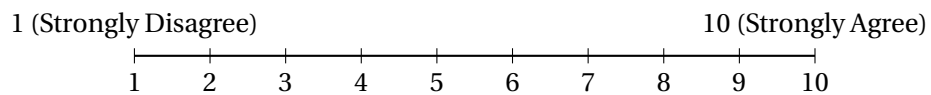
**My attention was fully tuned to the activity, and I forgot about the system or tool that I was using.**



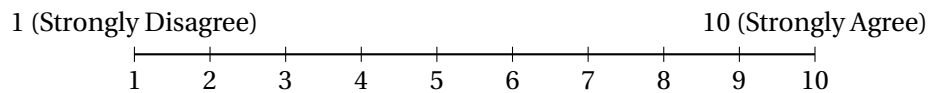
**I became so absorbed in the activity that I forgot about the system or tool that I was using.**



**I was satisfied with what I got out of the system or tool.**



**What I was able to produce was worth the effort I had to exert to produce it.**



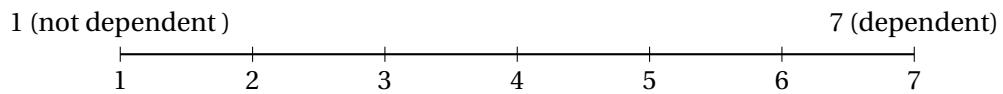
**1 For each comparison, choose one of the two Factors.**

**Which of the Factors was more important to you while doing the Tasks?**

<input type="checkbox"/> Be creative and expressive	<b>OR</b>	Become immersed in the activity	<input type="checkbox"/>
<input type="checkbox"/> Be creative and expressive	<b>OR</b>	Enjoy using the system or tool	<input type="checkbox"/>
<input type="checkbox"/> Be creative and expressive	<b>OR</b>	Explore many different ideas, outcomes, or possibilities	<input type="checkbox"/>
<input type="checkbox"/> Be creative and expressive	<b>OR</b>	Produce results that are worth the effort I put in	<input type="checkbox"/>
<input type="checkbox"/> Be creative and expressive	<b>OR</b>	Work with other people	<input type="checkbox"/>
<input type="checkbox"/> Become immersed in the activity	<b>OR</b>	Enjoy using the system or tool	<input type="checkbox"/>
<input type="checkbox"/> Become immersed in the activity	<b>OR</b>	Explore many different ideas, outcomes, or possibilities	<input type="checkbox"/>
<input type="checkbox"/> Become immersed in the activity	<b>OR</b>	Produce results that are worth the effort I put in	<input type="checkbox"/>
<input type="checkbox"/> Become immersed in the activity	<b>OR</b>	Work with other people	<input type="checkbox"/>
<input type="checkbox"/> Enjoy using the system or tool	<b>OR</b>	Explore many different ideas, outcomes, or possibilities	<input type="checkbox"/>
<input type="checkbox"/> Enjoy using the system or tool	<b>OR</b>	Produce results that are worth the effort I put in	<input type="checkbox"/>
<input type="checkbox"/> Enjoy using the system or tool	<b>OR</b>	Work with other people	<input type="checkbox"/>
<input type="checkbox"/> Explore many different ideas, outcomes, or possibilities	<b>OR</b>	Produce results that are worth the effort I put in	<input type="checkbox"/>
<input type="checkbox"/> Explore many different ideas, outcomes, or possibilities	<b>OR</b>	Work with other people	<input type="checkbox"/>
<input type="checkbox"/> Produce results that are worth the effort I put in	<b>OR</b>	Work with other people	<input type="checkbox"/>

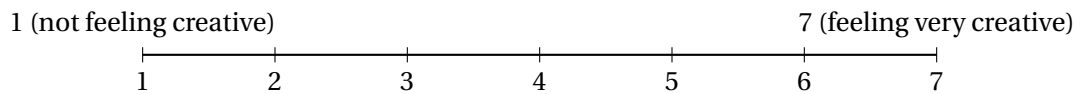
## 1 After Task Questions

1. To what extent, do you think, did the pen plotter's drawing dependent on your drawing?



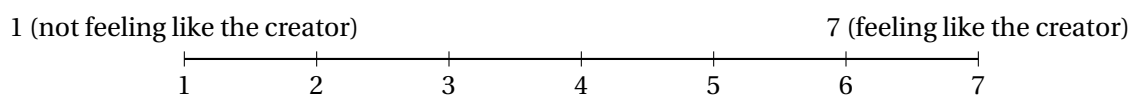
2. Which aspects, do you think, of your drawing influenced the Pen Plotters drawing?

3. How creatively supported did you feel while creating with the Pen Plotter?



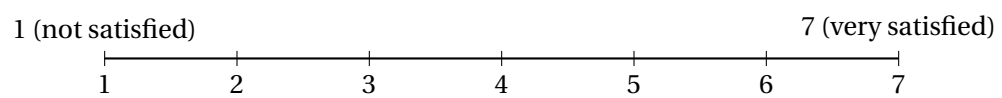
4. Does knowing that the Pen Plotter will draw after you, influence your creative process while drawing? If so, how? If not, why?

5. How much do you feel like being the Image's creator?



6. **Why do you feel like the creator of the Image, or why do you not feel like the creator of the image?**

7. **How satisfied are you with the interaction?**

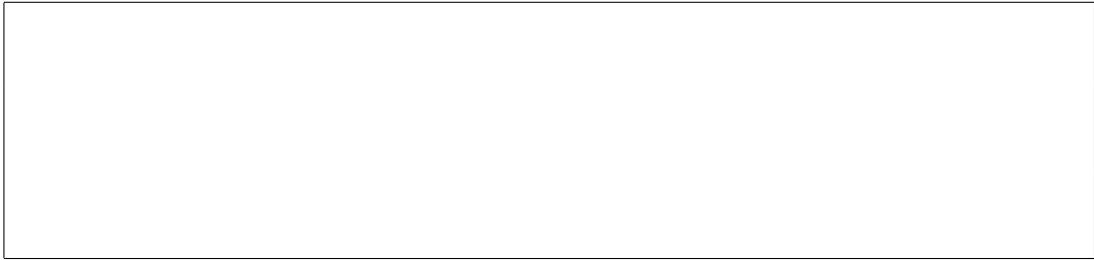


8. **Based on the previous Questions? Why or why are you not satisfied with the result?**

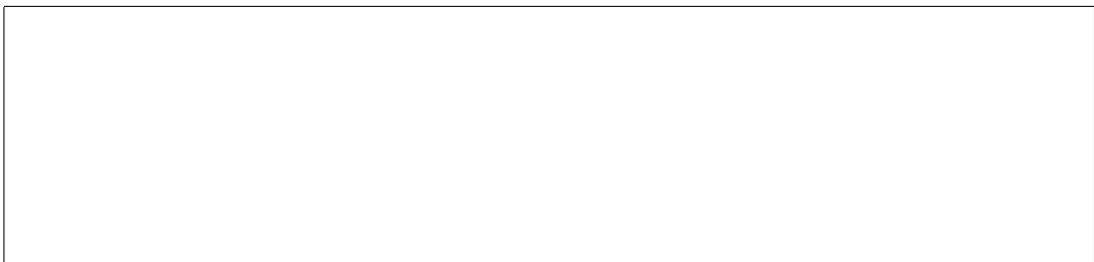


## **2 Additional Questions**

- 1. Which other Tasks could you Imagine using the Pen Plotter for?**



- 2. Which group of users would most enjoy using this Setup?**



- 3. How could the Setup with the Pen Plotter be improved?**



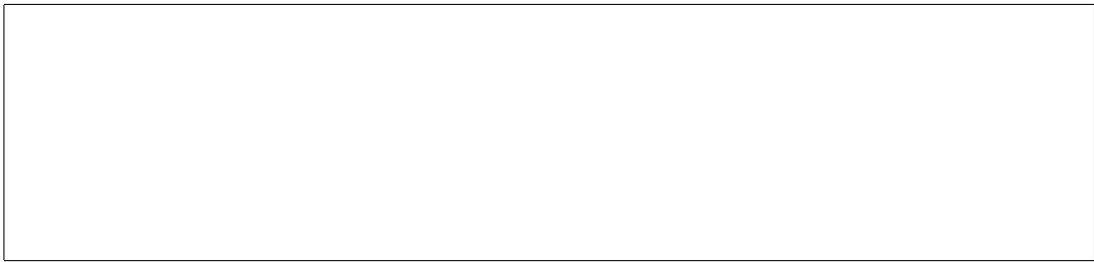
- 4. How do you think the Pen Plotters drawing depends on your drawings? How does it work?**



**5. If you have past drawing experience, how do you compare this to other drawing experiences?**

A large, empty rectangular box with a thin black border, intended for the user to provide their response to question 5.

**6. Would you use this system privately?**

A large, empty rectangular box with a thin black border, intended for the user to provide their response to question 6.