

# A

## Outdoor user evaluation

### A.1 Script

# Hog evaluation script

## Admin use

Participant ID: \_\_\_\_\_

## Contents

## Script

Thank you for your help with this experiment. We are trying to evaluate our god-like interaction interface.

Please read the information sheet in front of you now.

Do you have any questions?

Please read the consent form.

Do you understand the consent form?

Do you have any questions?

put this backpack on and lets get started

I will show you a number of visualization, there are four groups at the start of each group I will tell you want I want from you.

Fell free to walk around, your location and head orientation are being tracked so if you move in anyway the imagery on the screen will be updated.

So if you think it will help to walk around then by all means don't feel like you need to stand in the one position.

The evaluation will take approximately 20 minutes. Please feel free to stop at anytime, particularly if you feel any discomfort as a result of wearing the backpack.

## Section 0

**Start time:** \_\_\_\_\_

You should see a cube type thing that tells you that this is the hog3d user study.

Are you ready to continue?

## Section 1: Recognition of objects

Okay the first group of visualizations is about recognizing objects. I am going to show you an object and for each one I will ask you what you think it is. Please respond verbally the best you can.

Do you have any questions?

Are you ready?

*click the next button*

### **Wombat sign**

What do you see?

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*click the next button*

### **Hand Pointing**

What do you see?

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*click the next button*

### **Hong Kong cat**

What do you see?

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*click the next button*

### **Coke can**

What do you see?

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*click the next button*

**Banana milk**

What do you see?

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*click the next button*

**Vegemite**

What do you see?

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*click the next button*

**Summary**

Okay that is the end of that group of visualizations.

Do you need a rest?

Do you have any comments or questions about what you just saw?

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Are you ready to start the next section?

**Section 2: Interpretation of intent**

Okay this group is about determining intentions. I am about to show you some moving visualizations, for each visualization I will ask you what the intention of the action is. Each of these visualizations will take around a 20 seconds to load, please be patient.

Do you have any questions?

Are you ready to start?

*click next button*

**Pointing Hand**

What is the intention?

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*click the next button*

**No, no, no**

What is the intention?

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*click the next button*

**Thumbs up**

What is the intention?

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*click the next button*

**Summary**

Okay that is the end of that group of visualizations.

Do you need a rest?

Do you have any comments or questions about what you just saw?

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Are you ready to start the next section?

### Section 3.1: Determining distance (no assistance)

Okay this group of visualizations is about determining how far away you think an object is. Each object is the same (it is the pointing hand). For each pointing hand I will ask you how far away you think the object is. Feel free to move around if you think it will help you determine the distance.

Do you have any questions?

Are you ready to start?

#### Smallest object @ 50m

How far away would you guess the object to be: \_\_\_\_\_

*click the next button*

#### Largest object @ default

How far away would you guess the object to be: \_\_\_\_\_

*click the next button*

#### Smallest object @ default

How far away would you guess the object to be: \_\_\_\_\_

*click the next button*

#### Medium object @ 100m

How far away would you guess the object to be: \_\_\_\_\_

*click the next button*

**Smallest object @ 100m**

How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

**Largest object @ 50m**

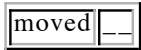
How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

**Largest object @ 100m**

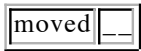
How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

**Medium object @ 50m**

How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

**Medium object @ default**

How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

**Summary**

Okay that is the end of that group of visualizations.

Do you need a rest?

Do you have any comments or questions about what you just saw?

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Are you ready to start the next section?

### Section 3.2: Determining distance (given boundaries)

Okay this group of visualizations is about determining how far away you think an object is. Again this is just the pointing hand that you will see. This time the object will appear at either 100 metres, 50 metres or less than 10 metres. Please you one of those categories to tell me how far away you think the object is when I ask you. Feel free to move around if you think it will help you determine the distance.

Do you have any questions?

Are you ready to start?

#### Medium object @ default

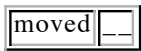
How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

#### Smallest object @ 50m

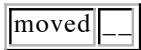
How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

#### Smallest object @ default

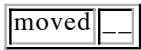
How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

#### Medium object @ 100m

How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

#### Largest object @ 100m

How far away would you guess the object to be: \_\_\_\_\_



*click the next button*



**Largest object @ default**

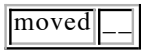
How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

**Smallest object @ 100m**

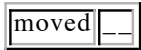
How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

**Largest object @ 50m**

How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

**Medium object @ 50m**

How far away would you guess the object to be: \_\_\_\_\_



*click the next button*

**Summary**

Okay that is the end of that group of visualizations.

Do you need a rest?

Do you have any comments or questions about what you just saw?

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Are you ready to start the next section?

**Section 4: Ability to find objects**

Okay this group of visualizations is about your ability to locate the pointing hand. The hand will be displayed somewhere, in front of you, behind you, to your left to your right, up in the air, it could be

anywhere. It might also be the case that it isn't being shown at all. I am going to time you. As soon as you find it let me know. Alternatively if you don't think it is being displayed let me know as soon as you think this is the case.

Do you have any questions?

Are you ready to start?

#### **4.1 - NOTHING**

Time: \_\_\_\_\_

*Click next*

#### **4.2 - SW**

Time: \_\_\_\_\_

*Take snapshot*

*Click next*

#### **4.3 - NE UP**

Time: \_\_\_\_\_

*Take snapshot*

*Click next*

#### **4.5 - NOTHING**

Time: \_\_\_\_\_

*Click next*

#### **4.5 - SE UP**

Time: \_\_\_\_\_

*Take snapshot*

*Click next*

#### **4.6 - NE UP**

Time: \_\_\_\_\_

*Take snapshot*

*Click next*

#### **4.7 - NW UP**

Time: \_\_\_\_\_

*Take snapshot*

*Click next*

**4.8 - 180 DEGREES**

Time: \_\_\_\_\_

*Take snapshot*

*Click next*

**4.9 - NW UP**

Time: \_\_\_\_\_

*Take snapshot*

*Click next*

**4.10 - 90 DEGREES**

Time: \_\_\_\_\_

*Take snapshot*

*Click next*

**4.11 - NE UP**

Time: \_\_\_\_\_

*Take snapshot*

*Click next*

**4.12 - NOTHING**

Time: \_\_\_\_\_

*Click next*

**Summary**

Okay that is the end of that group of visualizations.

Do you have any comments or questions about what you just saw?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

That concludes the this section of the evaluation.

We will head inside now and I'll ask you to complete the paper based evaluation.

## Section 5

**End time:** \_\_\_\_\_

Please fill out the questionnaire. If you have any questions please ask.

That concludes the evaluation.

Thank you for your time.

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## A.2 Questionnaire

**PARTICIPANT QUESTIONNAIRE FOR THE EVALUATION OF  
GOD-LIKE INTERACTION**

<b>Admin use</b> Participant ID: _____
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**Section 5.1**

Age: \_\_\_\_\_ Sex: \_\_\_\_\_

Number of hours per week using window based computers: \_\_\_\_\_

Total number of hours experience with Augmented Reality: \_\_\_\_\_

Total number of hours experience with Virtual Reality: \_\_\_\_\_

Has the evaluation invoked any thoughts or ideas you wish to share?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Section 5.2**

1. How aware of the technology were you?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
2. How aware of the weight of the technology were you?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
3. Did you find the field of view of the head mounted display adequate for the task?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					adequate
4. Did you find the back pack comfortable to wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					comfortable

**Section 5.3**

**The following will be used to determine the parts of the body feeling discomfort from wearing the outdoor augmented reality system. Please fill in the following questionnaire citing the level of discomfort you feel as a direct result from wearing the backpack:**

1. Neck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
2. Hands	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
3. Wrists	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
4. Fingers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
5. Elbows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
6. Arms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
7. Shoulders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
8. Back	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
9. Waist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
10. Legs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
11. Knees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
12. Ankles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
13. Feet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly
14. Eyes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Not at all					significantly

Is there any other part of your body which you think feels some discomfort as a direct result of wearing the backpack?

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**Thank you for your time!**