

# Mid-air Pointing Interaction

## Demographic Information & Device Assessment

Participant ID

## Demographic Information

Age:		Gender:		Optical Aid:		Handedness:	
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Do you own a mobile touch screen device (e.g., iPhone/iPod)?

Yes☐ No☐

Do you own a mobile smartwatch (e.g., Apple Watch/Moto 360)?

Yes☐ No☐

Have you used a mobile touch-based device before?

Yes☐ No☐

Have you used a map application before?

Yes☐ No☐

Have you experienced other mid-air pointing technologies before?

Yes☐ No☐

How do you rate your experience with touch-based mobile devices?

Highly inexperienced☐☐☐☐☐Highly experienced

# Device Assessment (1)

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## Touch (i.e, pan & scroll directly using touch)

**1. Smoothness during operation was:**

Very rough ☐ ☐ ☐ ☐ ☐ Very smooth

**2. Operation speed was:**

Too fast ☐ ☐ ☐ ☐ ☐ Too slow

**3. Finger fatigue:**

None ☐ ☐ ☐ ☐ ☐ Very high

**4. Wrist fatigue:**

None ☐ ☐ ☐ ☐ ☐ Very high

**5. General comfort:**

Very uncomfortable ☐ ☐ ☐ ☐ ☐ Very comfortable

**6. Overall, the input method was:**

Very difficult to use ☐ ☐ ☐ ☐ ☐ Very easy to use

Please state your own comments (advantages / disadvantages) below:

# Device Assessment (2)

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## Touch+Inertia (i.e, pan & scroll directly using touch with inertia enabled)

**7. Smoothness during operation was:**

Very rough ☐ ☐ ☐ ☐ ☐ Very smooth

**8. Operation speed was:**

Too fast ☐ ☐ ☐ ☐ ☐ Too slow

**9. Finger fatigue:**

None ☐ ☐ ☐ ☐ ☐ Very high

**10. Wrist fatigue:**

None ☐ ☐ ☐ ☐ ☐ Very high

**11. General comfort:**

Very uncomfortable ☐ ☐ ☐ ☐ ☐ Very comfortable

**12. Overall, the input method was:**

Very difficult to use ☐ ☐ ☐ ☐ ☐ Very easy to use

Please state your own comments (advantages / disadvantages) below:

# Device Assessment (3)

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**“Mid-air” (i.e, panning through the interface using mid-air pointing)**

**1. Smoothness during operation was:**

Very rough ☐ ☐ ☐ ☐ ☐ Very smooth

**2. Operation speed was:**

Too fast ☐ ☐ ☐ ☐ ☐ Too slow

**3. Finger fatigue:**

None ☐ ☐ ☐ ☐ ☐ Very high

**4. Wrist fatigue:**

None ☐ ☐ ☐ ☐ ☐ Very high

**5. General comfort:**

Very uncomfortable ☐ ☐ ☐ ☐ ☐ Very comfortable

**6. Overall, the input method was:**

Very difficult to use ☐ ☐ ☐ ☐ ☐ Very easy to use

Please state your own comments (advantages / disadvantages) below:

# Ranking

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**Please rank the aforementioned systems**

Touch: \_\_\_\_\_

Touch+Inertia: \_\_\_\_\_

Mid-air pointing: \_\_\_\_\_

**Additional general feedback (optional):**