**Mid-air Pointing Interaction**

**Participant ID  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Demographic Information & Device Assessment**

Demographic Information

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Age:** |  | **Gender:** |  | **Optical Aid:** |  | **Handedness:** |  |

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)

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

1. **Smoothness during operation was:**

Very rough ⬜ ⬜ ⬜ ⬜ ⬜ Very smooth

1. **Operation speed was:**

Too fast ⬜ ⬜ ⬜ ⬜ ⬜ Too slow

1. **Finger fatigue:**

None ⬜ ⬜ ⬜ ⬜ ⬜ Very high

1. **Wrist fatigue:**

None ⬜ ⬜ ⬜ ⬜ ⬜ Very high

1. **General comfort:**

Very uncomfortable ⬜ ⬜ ⬜ ⬜ ⬜ Very comfortable

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

Very difficult to use ⬜ ⬜ ⬜ ⬜ ⬜ Very easy to use

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

|  |
| --- |
|  |

Device Assessment (2)

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

1. **Smoothness during operation was:**

Very rough ⬜ ⬜ ⬜ ⬜ ⬜ Very smooth

1. **Operation speed was:**

Too fast ⬜ ⬜ ⬜ ⬜ ⬜ Too slow

1. **Finger fatigue:**

None ⬜ ⬜ ⬜ ⬜ ⬜ Very high

1. **Wrist fatigue:**

None ⬜ ⬜ ⬜ ⬜ ⬜ Very high

1. **General comfort:**

Very uncomfortable ⬜ ⬜ ⬜ ⬜ ⬜ Very comfortable

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

Very difficult to use ⬜ ⬜ ⬜ ⬜ ⬜ Very easy to use

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

|  |
| --- |
|  |

Device Assessment (3)

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

1. **Smoothness during operation was:**

Very rough ⬜ ⬜ ⬜ ⬜ ⬜ Very smooth

1. **Operation speed was:**

Too fast ⬜ ⬜ ⬜ ⬜ ⬜ Too slow

1. **Finger fatigue:**

None ⬜ ⬜ ⬜ ⬜ ⬜ Very high

1. **Wrist fatigue:**

None ⬜ ⬜ ⬜ ⬜ ⬜ Very high

1. **General comfort:**

Very uncomfortable ⬜ ⬜ ⬜ ⬜ ⬜ Very comfortable

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

Very difficult to use ⬜ ⬜ ⬜ ⬜ ⬜ Very easy to use

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

|  |
| --- |
|  |

Ranking

# Please rank the aforementioned systems

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

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

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

# Additional general feedback (optional):

|  |
| --- |
|  |