

Test Task Scenarios & Script Subject 0001

Welcome Message (for all scenarios)

System: Intersect-Assist is an application which provides information about intersections to the visually impaired community.

System: "At any time, if you wish to skip the information being provided, please tap the screen once."

System: "When you get to an intersection, swipe the screen downwards to know about the intersection."

System: "You may also swipe up to start the traffic light detection"

Scenario # 1

Intersection: St-Catherine and Mackay [NE to SE Corner]

Design Prototype: Prototype 1 (Spatialized audio)

System: "Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering."

User: if swipe down, repeat last message.

User: if swipe up,

System:

[From the front (both ears)] "Intersection: Mackay and St-Catherine, 4-way configuration." [From the right (right ear only)] "Mackay is a one-way street, two lanes. Traffic flows in the direction you are facing."

[From the front (both ears)] "St-Catherine is a one-way street, two lanes. Traffic flows from your right to your left."

[From the front (both ears)] "Swipe down to repeat the mapping information. Swipe up to start the traffic light detection and veering."

User: if swipe down, repeat intersection message.

User: if swipe up,

System:

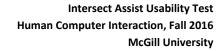
[From the front (both ears)] "Detection started. Waiting for light to turn green."

[From the front (both ears, when the light turns green)] "The light is green. Start crossing when you feel comfortable!"

[If veers toward the left] "Beep from the left earphone"

[If veers toward the right] "Beep from the right earphone"

[When finish crossing] "Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering."





Scenario # 2

Intersection: Mackay and St-Catherine [SE to SW Corner]

Design Prototype: Prototype 1 (Spatialized audio)

System: "Swipe down to get the mapping information. Swipe up to start the traffic light

detection and veering."

User: if swipe down, repeat last message.

User: if swipe up,

System:

[From the front (both ears)] "Intersection: Mackay and St-Catherine, 4-way configuration." [From the right (right ear only)] "St-Catherine is a one-way street, two lanes. Traffic flows in the opposite direction you are facing.."

[From the front (both ears)] "Mackay is a one-way street, two lanes. Traffic flows from your right to your left."

[From the front (both ears)] "Swipe down to repeat the mapping information. Swipe up to start the traffic light detection and veering."

User: if swipe down, repeat intersection message.

User: if swipe up,

System:

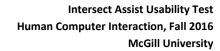
[From the front (both ears)] "Detection started. Waiting for light to turn green."

[From the front (both ears, when the light turns green)] "The light is green. Start crossing when you feel comfortable!"

[If veers toward the left] "Beep from the left earphone"

[If veers toward the right] "Beep from the right earphone"

[When finish crossing] "Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering."





Scenario # 3

Intersection: Guy and Maisonneuve [SW to NW Corner]

Design Prototype: Prototype 2 (Stereo audio & Haptics for veering)

System: "Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering."

User: if swipe down, repeat last message.

User: if swipe up,

System:

[From the front] "Intersection: Guy and Maisonneuve, 4-way configuration"

[From the front] "Guy is a two-way street, four lanes."

[From the front] "The closest two lanes flow in the opposite direction you are facing."

[From the front] "The further two lanes flow in the direction you are facing."

[From the front] "Maisonneuve is a one-way street, two lanes. Traffic flows from your right to your left."

[From the front (both ears)] "Swipe down to repeat the mapping information. Swipe up to start the traffic light detection and veering."

User: if swipe down, repeat intersection message.

User: if swipe up,

System:

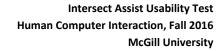
[From the front (both ears)] "Detection started. Waiting for light to turn green."

[From the front (both ears, when the light turns green)] "The light is green. Start crossing when you feel comfortable!"

[If veers toward the left] "Vibrate on the left arm band"

[If veers toward the right] "Vibrate on the right arm band"

[When finish crossing] "Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering."





Scenario # 4

Intersection: Maisonneuve and Guy [NW to SW Corner]

Design Prototype: Prototype 2 (Stereo audio & Haptics for veering)

System: "Swipe down to get the mapping information. Swipe up to start the traffic light

detection and veering."

User: if swipe down, repeat last message.

User: if swipe up,

System:

[From the front] "Intersection: Maisonneuve and Guy, 4-way configuration."

[From the front] " Maisonneuve is a one-way street, two lanes. Traffic flows in the opposite direction you are facing."

[From the front] "Guy is a two-way street, four lanes".

[From the front] "The closest two lanes ahead flow from your left to your right"

[From the front] "The other two lanes flow from your right to your left."

[From the front] "Swipe down to repeat the mapping information. Swipe up to start the traffic light detection and veering."

User: if swipe down, repeat intersection message.

User: if swipe up,

System:

[From the front] "Detection started. Waiting for light to turn green."

[From the front, when the light turns green] "The light is green. Start crossing when you feel comfortable!"

[If veers toward the left] "Vibrate on the left arm band"

[If veers toward the right] "Vibrate on the right arm band"

[When finish crossing] "Swipe down to get the mapping information. Swipe up to start the traffic light detection and veering."