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Questionnaire

1 Personal information

In what age group are you?	
19 and under	
20-29	
30-39	
40-49	
50-59	
60+	
Gender:	
Male	
Female	
	$\mathrm{not\ familiar} \rightarrow$
Please rate your familiarity with the following games/programs	← very familiar
First-person shooters (e.g. Counter Strike)	
Third-person roll playing games (e.g. World of Warcraft)	
Pseudo-3D roll playing games (e.g. Diablo II, The Sims)	
Computer games in general	
Life simulations (e.g. SecondLife)	

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2 To be completed before the experiment

$2.1\,$ Orientation and navigation for visually impaired

Please rate the following tasks according to the difficulty for a visually impaired compared to a sighted:	$\begin{array}{c} \text{about the same} \rightarrow \\ \leftarrow \text{a lot more difficult} \end{array}$
Crossing a street	
Walking in a park	
Navigating in an unknown apartment	
Navigating in a known apartment	
Besides the tasks mentioned above, which other tasks do you think a impaired?	are difficult for visually
Please rate how important the following cues are for navigation:	$\text{not important} \rightarrow$
Listening to environmental sounds	← very important
Listening to food step sounds	
Touching with the hands	
Force-feedback from the cane	
Smelling environmental smells	
Besides the cues mentioned above, which other cues do you think ar navigation?	e important for

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3 To be completed after the experiments		
3.1 Program evaluation		
Please rate the following aspects of the program:	$\begin{array}{l} \text{agree completely} \rightarrow \\ \leftarrow \text{strongly disagree} \end{array}$	
Navigation with vision was easy and intuitive		
The localization of sounds in 3D was good		
The cause of the sound was clear		
3D audio was convincing		
Which rotation type did you like more? Discrete Rotations Continuous Rotations		
3.2 Orientation and navigation for visually impaired		
Please rate the following tasks according to the difficulty for a visually impaired compared to a sighted:	$\begin{array}{c} \text{about the same} \rightarrow \\ \leftarrow \text{a lot more difficult} \end{array}$	
Crossing a street		
Walking in a park		
Navigating in an unknown apartment		
Navigating in a known apartment		
Besides the tasks mentioned above, which other tasks do you think are difficult for visually impaired?		

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Please rate how important the following cues are for navigation:	$\begin{array}{c} \text{not important} \rightarrow \\ \leftarrow \text{very important} \end{array}$
Listening to environmental sounds	
Listening to food step sounds	
Touching with the hands	
Force-feedback from the cane	
Smelling environmental smells	
Additional comments about the study (optional):	