invoke

vr sound

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System Assessment

Thank you for taking the time to do this survey. Please read the following instructions carefully. Please do not confer with the other participant about your answers to any of these questions.

1. Please enter your player number, user ID, and name ID

The researcher can assist with player number and user ID, your name ID is the first two letters of your first name and the last three letters of your surname.

Example: Adam Smith, took the test and Name ID = adith

Player number:	1 or 2
User ID:	1-30
Name ID:	

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2. How would you rate the experience you just had making music?

Use the scales indicated and place a marker at the relevant position.

Stress　　　　　　　　　　　High Arousal　　　　　　　　　　Excitement

Unpleasent
Feelings　　　　　　　　　　　　　　　　　　　　　　　　　Pleasent
　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Feelings

Depression　　　　　　　　　　　Sleepiness　　　　　　　　　Relaxation

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3. How did you feel about making music in this medium (VR) with the interface (Invoke)?

4. How did you feel about collaborating to accomplish the task?

5. How did you feel about the interface media (VR HMD and controllers) for the task?

6. To what extent do you imagine using this sort of interface in spatial music-making process?

7. What would you like to see improved in the interface and interactions?

8. What is your impression of how effective you and your collaborator were in the task?

Rate how much you agree with the following statements

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	don't know
We defined a clear direction on how to address the composition together	○	○	○	○	○	○
We managed to achieve what we had planned	○	○	○	○	○	○
We were an effective team	○	○	○	○	○	○

9. How collaborative did making the music feel?

Rate how much you agree with the following statements

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	don't know
I worked mostly on my own	○	○	○	○	○	○
I felt part of a collaborative process	○	○	○	○	○	○
The other person ignored my contributions	○	○	○	○	○	○
The music made was a shared product	○	○	○	○	○	○

10. What did you enjoy about the experience of making music in this context? Likewise, what didn't you enjoy?

Rate how much you agree with the following statements

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	don't know
I like the music composition we made	○	○	○	○	○	○
I enjoyed making the music composition	○	○	○	○	○	○
I felt part of a creative process	○	○	○	○	○	○

11. To explore musical ideas together, how did you create a shared understanding? And how would you describe the process of working together?

Rate how much you agree with the following statements

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	don't know
When things were unclear we worked together to resolve it	○	○	○	○	○	○
We built on each others' ideas	○	○	○	○	○	○
We learned from each other	○	○	○	○	○	○
We did not understand our actions towards spatialising music	○	○	○	○	○	○
I could understand what my partner was trying to do musically	○	○	○	○	○	○

12. How engaged in the music-making process were you?

Rate how much you agree with the following statements

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	don't know
It felt like playing a game	○	○	○	○	○	○
It was challenging	○	○	○	○	○	○
I lost track of time	○	○	○	○	○	○
I enjoyed myself	○	○	○	○	○	○
I felt distracted	○	○	○	○	○	○
I was bored	○	○	○	○	○	○

13. How well did the system support your creative intentions?

Rate how much you agree with the following statements

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree
I would imagine that most people would learn to use this system very quickly.	○	○	○	○	○
I found the system unnecessarily complex.	○	○	○	○	○
I found the various functions in this system were well integrated.	○	○	○	○	○
I think that I would like to use this system frequently.	○	○	○	○	○
I thought the system was easy to use.	○	○	○	○	○
I needed to learn a lot of things before I could get going with this system.	○	○	○	○	○
I thought there was too much inconsistency in this system.	○	○	○	○	○
I felt very confident using the system.	○	○	○	○	○
I think that I would need the support of a technical person to be able to use this system.	○	○	○	○	○
I found the system very cumbersome to use.	○	○	○	○	○

14. How well did the system work as a musical device?

Rate how much you agree with the following statements

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	don't know
I did not feel in control of the sound	○	○	○	○	○	○
I was really engaged in the music making process	○	○	○	○	○	○
I could plan sonic events using the system	○	○	○	○	○	○
I was connected to the sound changes through my actions	○	○	○	○	○	○
I could relate actions to specific sonic effects	○	○	○	○	○	○
I could explore sound using body gestures	○	○	○	○	○	○
I was able to make the changes I wanted to the composition	○	○	○	○	○	○

15. How well did the system support social interaction?

16. Use the items to describe your sense of awareness in the environment.

Please click once for every line.

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	don't know
I hardly noticed the other musician.	○	○	○	○	○	○
The other musician didn't notice me in the room.	○	○	○	○	○	○
I was often aware of the other musician in the environment.	○	○	○	○	○	○
The other musician was often aware of me in the room.	○	○	○	○	○	○

17. Use the items describe your level of understanding with your collaborator.

Please click once for every line.

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	don't know
My opinions were clear to my partner.	○	○	○	○	○	○
The opinions of the my partner were clear to me.	○	○	○	○	○	○
My thoughts were clear to my partner.	○	○	○	○	○	○
My partner's thoughts were clear to me.	○	○	○	○	○	○
My partner understood what I meant.	○	○	○	○	○	○
I understood what my partner meant.	○	○	○	○	○	○

18. Use the items to describe your actions in the experience.

Please click once for every line.

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	don't know
My actions were dependent on the my partner's actions.	○	○	○	○	○	○
My partner's actions were dependent on my actions.	○	○	○	○	○	○
My behaviour was in direct response to my partner's behaviour.	○	○	○	○	○	○
The behaviour of my partner was I direct response to my behaviour.	○	○	○	○	○	○
What my partner did affected what I did.	○	○	○	○	○	○
What I did affected what my partner did.	○	○	○	○	○	○

19. Use the items describe your actions with each other.

Please click once for every line.

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	don't know
My partner did not help me very much.	○	○	○	○	○	○
I did not help my partner very much.	○	○	○	○	○	○
My partner worked with me to complete the task.	○	○	○	○	○	○
I worked with my partner to complete the task.	○	○	○	○	○	○

20. Use the items to describe the ability to act in a collaborative context.

Please click once for every line.

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	don't know
My partner could not act without me.	○	○	○	○	○	○
I could not act without my partner.	○	○	○	○	○	○

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CSI

Please rate your agreement with the following statements:

Highly Disagree   Highly Agree

It was easy for me to explore many different ideas, options, designs, or outcomes, using this system or tool.	○	○	○	○	○	○	○	○	○	○
The system or tool allowed me to be very expressive.	○	○	○	○	○	○	○	○	○	○
The system or tool was helpful in allowing me to track different ideas, outcomes, or possibilities.	○	○	○	○	○	○	○	○	○	○
I enjoyed using this system or tool.	○	○	○	○	○	○	○	○	○	○
It was really easy to share ideas and designs with other people inside this system or tool.	○	○	○	○	○	○	○	○	○	○
What I was able to produce was worth the effort I had to exert to produce it.	○	○	○	○	○	○	○	○	○	○
My attention was fully tuned to the activity, and I forgot about the system or tool that I was using.	○	○	○	○	○	○	○	○	○	○
I was able to be very expressive and creative while doing the activity inside this system or tool.	○	○	○	○	○	○	○	○	○	○
I was satisfied with what I got out of the system or tool.	○	○	○	○	○	○	○	○	○	○
I would be happy to use this system or tool on a regular basis.	○	○	○	○	○	○	○	○	○	○
The system or tool allowed other people to work with me easily.	○	○	○	○	○	○	○	○	○	○
I became so absorbed in the activity that I forgot about the system or tool that I was using.	○	○	○	○	○	○	○	○	○	○

In the following stage, you will be presented with following word pairs to help you for your assessment. They represent stark contrasts and can be subdivided into further rating levels.

- Do not ponder over the word pairs and make your assessment spontaneously.
- You may feel that some word pairs do not fit the situation very well. However, we would ask you to give an answer anyway.
- Remember that there are no "right" or "wrong" answers - your personal opinion is what counts.

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21. What do you consider the most appropriate description for the system?

Please click one every line.

ugly	○	○	○	○	○	○	○	attractive
likeable	○	○	○	○	○	○	○	disagreeable
professional	○	○	○	○	○	○	○	unprofessional
isolating	○	○	○	○	○	○	○	connective
simple	○	○	○	○	○	○	○	complicated
cumbersome	○	○	○	○	○	○	○	straightforward
pleasant	○	○	○	○	○	○	○	unpleasant
practical	○	○	○	○	○	○	○	impractical
inventive	○	○	○	○	○	○	○	conventional
human	○	○	○	○	○	○	○	technical

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22. What do you consider the most appropriate description for the system?

Please click one item in every line.

rejecting	○	○	○	○	○	○	○	inviting
good	○	○	○	○	○	○	○	bad
cheap	○	○	○	○	○	○	○	premium
unimaginative	○	○	○	○	○	○	○	creative
brings me closer to people	○	○	○	○	○	○	○	separates me from people
stylish	○	○	○	○	○	○	○	tacky
unpresentable	○	○	○	○	○	○	○	presentable
predictable	○	○	○	○	○	○	○	unpredictable
alienating	○	○	○	○	○	○	○	integrating

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23. What do you consider the most appropriate description for the system?

Please click one item in every line.

undemanding	○	○	○	○	○	○	○	challenging
dull	○	○	○	○	○	○	○	captivating
novel	○	○	○	○	○	○	○	ordinary
unruly	○	○	○	○	○	○	○	manageable
repelling	○	○	○	○	○	○	○	appealing
bold	○	○	○	○	○	○	○	cautious
confusing	○	○	○	○	○	○	○	clearly structured
innovative	○	○	○	○	○	○	○	conservative
motivating	○	○	○	○	○	○	○	discouraging

Interface and Interaction

The next section assesses your experience of using the interface in the previous task; it looks at how individual elements or interactions could be improved.

Phrases should be simple to understand so go with your first impressions.

24. Describe your experience of drawing voice trajectories using the input technology (VR HMD and Controllers) and system design (button choice, motion speed, pen object, shape reactivity, and laser guide).

Please place one click in each row.

slow	○	○	○	○	○	○	○	fast
gentle	○	○	○	○	○	○	○	powerful
incidental	○	○	○	○	○	○	○	targeted
instant	○	○	○	○	○	○	○	delayed
spatial separation	○	○	○	○	○	○	○	spatial proximity
mediated	○	○	○	○	○	○	○	direct
uniform	○	○	○	○	○	○	○	diverging
stepwise	○	○	○	○	○	○	○	fluent
constant	○	○	○	○	○	○	○	inconstant
approximate	○	○	○	○	○	○	○	precise
apparent	○	○	○	○	○	○	○	covered

25. Do you have any further comments on your experience of interacting with interface elements?
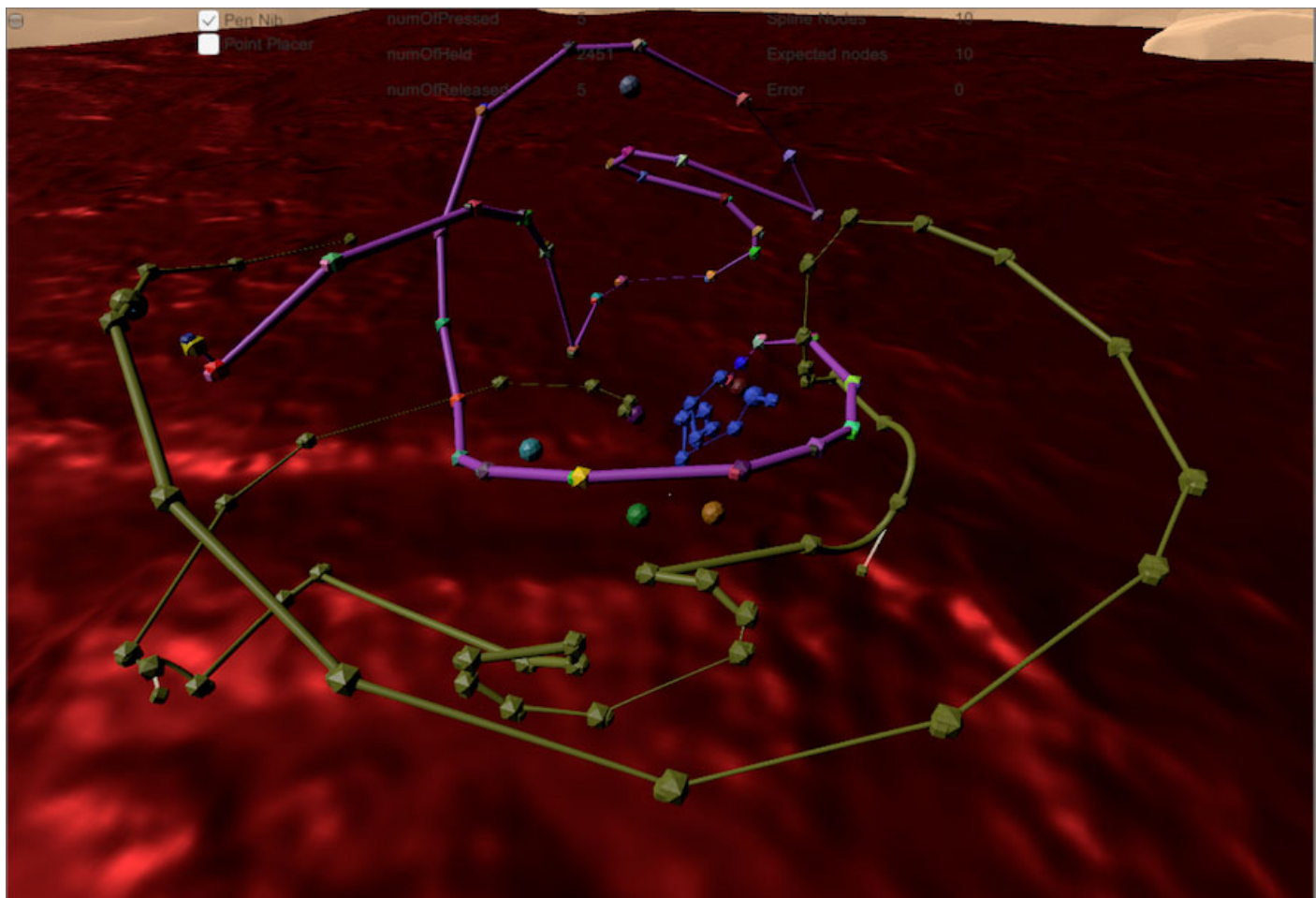
26. Describe your experience with the information presentation of trajectories in the system. Information presentation being the world-space bezier line representations used for manipulating paths; example image above.

27. Describe your experience of the menu-based information presentation in the system. Information presentation being the musical information in the mixer, trajectory manager and the various menu functions.

Tell us about yourself!

The following section questions about you, please answer as best you can. Your data will be dealt with anonymously.

28. Please think of the person you have worked with today in the music tasks (whom we'll refer to as "the other musician "), read each statement carefully, and circle the answer that best corresponds to your agreement or disagreement with each statement.

Please respond to and only circle one answer for each statement.

	definitely false or strongly disagree	mostly false or disagree	about equally true or false, cannot decide, or neutral	mostly true or agree	definitely true or strongly agree
I have known the other musician for many years.	○	○	○	○	○
The other musician and I are physically affectionate.	○	○	○	○	○
I have known the other musician for a long time.	○	○	○	○	○
I have gone to parties with the other musician.	○	○	○	○	○
The other musician often hides his/her true feelings from me.	○	○	○	○	○
Seeing the other musician is part of my weekly routine.	○	○	○	○	○
I know what the other musician 's goals are.	○	○	○	○	○
The other musician hides his/her true feelings from me.	○	○	○	○	○
The other musician has told me about his/her interests.	○	○	○	○	○
I have spent time with the other musician and his/her friends.	○	○	○	○	○
The other musician and I have been physically intimate.	○	○	○	○	○
The other musician avoids showing his/her true feelings around me.	○	○	○	○	○
The other musician and I go way back.	○	○	○	○	○
I am familiar with the other musician 's friends.	○	○	○	○	○
I see the other musician a lot.	○	○	○	○	○
The other musician and I often hold hands when we walk together.	○	○	○	○	○
Seeing the other musician is part of my daily routine.	○	○	○	○	○
The other musician has told me what his/her goals are.	○	○	○	○	○

29. How experienced with "virtual reality" are you?

	never before						a great many times
I have experienced virtual reality	○	○	○	○	○	○	○
I have used the HTC Vive/Oculus Rift	○	○	○	○	○	○	○

Demographics

30. Nationality

Please enter your nationality (optional)

[British]

31. Gender

I identify my gender as...

_____　　　　　☐ Prefer not to say

32. How old are you?

I am _____ years old

33. How would you define yourself?

Select as many as you want.

☐ Music performer

☐ Composer

☐ Sound Designer

☐ Audio Engineer

☐ Mixer

☐ Sound Artist

☐ Producer
　In what sense?

☐ Music Technology Researcher
　What field?

☐ Other
　_____

34. How many years have you been making music?

_____

35. How long have you used computers for music making?

I've used them for _____ years

36. How would you (or others) describe the genre of your most common musical output?

Genre, idiom, style
and/or feeling:

37. Have you officially released records or songs? If so, how many?

This can include commissions of work for sound design or composition.

[None]

38. Please select the most appropriate category

	Completely Disagree	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Completely Agree
I am able to judge whether someone is a good singer or not.	○	○	○	○	○	○	○
I usually know when I'm hearing a song for the first time.	○	○	○	○	○	○	○
I find it difficult to spot mistakes in a performance of a song even if I know the tune.	○	○	○	○	○	○	○
I can compare and discuss differences between two performances or versions of the same piece of music.	○	○	○	○	○	○	○
I have trouble recognizing a familiar song when played in a different way or by a different performer.	○	○	○	○	○	○	○
I have never been complimented for my talents as a musical performer.	○	○	○	○	○	○	○
I can tell when people sing or play out of time with the beat.	○	○	○	○	○	○	○
I can tell when people sing or play out of tune.	○	○	○	○	○	○	○
When I sing, I have no idea whether I'm in tune or not.	○	○	○	○	○	○	○
When I hear a music I can usually identify its genre.	○	○	○	○	○	○	○
I would not consider myself a musician.	○	○	○	○	○	○	○

39. Please fill in the details:

I engaged in regular, daily practice of a musical instrument (including voice) for ⬚ years.

At the peak of my interest, I practiced ⬚ hours per day on my primary instrument.

I have had formal training in music theory for ⬚ years.

I have had ⬚ years of formal training on a musical instrument (including voice) during my lifetime.

I can play ⬚ musical instruments.

The instrument I play best (including voice) is ⬚

Last Page

Thank you!

Please ask the researcher what to do next.

Your answers have been saved, you can now close the browser window.