

1st Questionnaire

Personal Information and Previous Experience with VR

First User Testing of Nature Realms
by Team Hyper
16th of March 2023. AP Immersive Lab

First of all, thank you very much for participating in our experiment. You are playing a fundamental role in our research process and we hope you enjoy this experience!

To get started, please fill out the following questionnaire.

We won't share your information with anyone outside the project-team and it will only be used for research-purposes.

If you would like more information regarding the collection and processing of data, you can have a look at the [Privacy Statement for Research at AP University](#).

Full Name

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Age

.....

Gender (if you don't feel comfortable disclosing your gender, skip this question)

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Country of origin

.....

Are you a student? Yes No

If yes, what is your field of study?

.....

If not, what is your profession? (If you are unemployed, please disclose it as well)

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Do you know what Virtual Reality (VR) is?

Yes No

Have you already had VR-Experiences before?

Yes No

If yes, please, tell us a little bit about your prior experience with VR.

Was it a game?

An immersive experience like a roller coaster?

a 360° video?

please specify the approximate duration, how many times you have experienced VR, etc ...

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Choose the option that best describes your experience

☐ It was a positive experience

☐ It was a neutral experience

☐ It was a negative experience

Why? Explain your previous choice

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Do you have a VR headset at home? (Google Cardboard or similar devices also count)

Yes No

If yes, please specify the model:

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2nd Questionnaire

Virtual Experience without Physical Stimulus

First User Testing of Nature Realms
by Team Hyper
16th of March 2023. AP Immersive Lab

Please answer the following questions regarding how you felt during the mountain experience.

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1. To what extent did the virtual environment look like a mountain?

Not at all 1 2 3 4 5 Very much so

2. Did the visuals make you feel more immersed in the environment?

Not at all 1 2 3 4 5 Very much so

3. To what extent did you forget that you were in a laboratory?

I totally forgot about it 1 2 3 4 5 I was totally aware that I was in the laboratory

4. To what extent did you feel you were actually standing on a mountain?

I never felt like 1 2 3 4 5 I completely believed I was on a mountain

5. How difficult was it to move around the place?

Not difficult at all 1 2 3 4 5 Very difficult

6. Did this made you feel more immersed in the environment?

Not at all 1 2 3 4 5 Very much so

7. How intuitive was it to interact with the robot-dog?

Not intuitive at all 1 2 3 4 5 Very intuitive

8. Did the robot-dog make you feel more immersed in the environment?

Not at all 1 2 3 4 5 Very much so

9. Did you feel any physical stimulus (any sound, smell, touch-sensation...)? If yes, please, describe it below

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.....

Did this make you feel more immersed in the virtual environment?

Not at all 1 2 3 4 5 A lot

10. Did you ever feel like taking the headset off to see what was happening in the real world?

Yes

No

11. To what extent did you feel as though you were separated from your real-world environment?

Not at all 1 2 3 4 5 Very much so

12. To what extent was your sense of being in the environment stronger than your sense of being in the real world?

Not at all 1 2 3 4 5 Very much so

13. To what extent did you notice events taking place around you?

Not at all 1 2 3 4 5 Very much so

14. At any point did you find yourself become so involved that you were unaware you were even using controls?

Not at all 1 2 3 4 5 Very much so

15. When interrupted, were you disappointed that the experience was over?

Definitely not 1 2 3 4 5 Definitely yes

16. Would you like to have the experience again?

Definitely not 1 2 3 4 5 Definitely yes

3rd Questionnaire

Virtual Experience with Physical Stimulus

First User Testing of Nature Realms
by Team Hyper
16th of March 2023. AP Immersive Lab

Please answer the following questions regarding how you felt during the mountain experience.

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1. To what extent did the virtual environment look like a mountain?

Not at all 1 2 3 4 5 Very much so

2. Did the visuals make you feel more immersed in the environment?

Not at all 1 2 3 4 5 Very much so

3. To what extent did you forget that you were in a laboratory?

I totally forgot about it 1 2 3 4 5 I was totally aware that I was in the laboratory

4. To what extent did you feel you were actually standing on a mountain?

I never felt like 1 2 3 4 5 I completely believed I was on a mountain

5. How difficult was it to move around the place?

Not difficult at all 1 2 3 4 5 Very difficult

6. Did this made you feel more immersed in the environment?

Not at all 1 2 3 4 5 Very much so

7. Did you feel any physical stimulus?

Yes

No

Did the physical stimulation match what you were seeing?

Not at all 1 2 3 4 5 It was very accurate

8. Did you feel the physical input as something external that was not part of the virtual experience?

No, it was totally related to the experience 1 2 3 4 5 Yes, it felt artificial and didn't match the experience

9. Did this input help you feel more immersed in the virtual environment?

Not at all 1 2 3 4 5 Very much so

10. To what extent did it distract you from the virtual environment?

Not at all 1 2 3 4 5 Very much so

11. To what extent did you feel it as something you would experience in a real mountain?

Not at all 1 2 3 4 5 Very much so

12. Did you ever feel like taking the headset off to see what was happening in the real world?

Yes

No

17. To what extent did you feel as though you were separated from your real-world environment?

Not at all 1 2 3 4 5 Very much so

18. To what extent was your sense of being in the environment stronger than your sense of being in the real world?

Not at all 1 2 3 4 5 Very much so

19. To what extent did you notice events taking place around you?

Not at all 1 2 3 4 5 Very much so

20. At any point did you find yourself become so involved that you were unaware you were even using controls?

Not at all 1 2 3 4 5 Very much so

21. When interrupted, were you disappointed that the experience was over?

Definitely not 1 2 3 4 5 Definitely yes

22. Would you like to have the experience again?

Definitely not 1 2 3 4 5 Definitely yes

23. Would you change the perceived physical stimulus in any way? (Direction, intensity, duration...) If so, explain it below

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24. Did you feel any other physical stimulus (any sound, smell, touch-sensation...), apart from the one(s) intentionally made by the laboratory staff? Describe it below

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Did this make you feel more immersed in the virtual environment?

Not at all 1 2 3 4 5 Very much so

4th Questionnaire
Experiment Feedback
First User Testing of Nature Realms
by Team Hyper
16th of March 2023. AP Immersive Lab

Thank you very much for being part of our first experiment!
We hope you enjoyed it and that you are eager to continue exploring VR together with us, Team Hyper.
Please, fill in this last questionnaire, so that we can use your feedback to improve our future experiments.

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1. Rate the overall communication of the experiment (WhatsApp, Email...)

Very poor 1 2 3 4 5 Near perfect

2. Was the time-frame appropriate for you?

Not at all 1 2 3 4 5 Very much so

3. Were the VR devices in good condition?

Not at all 1 2 3 4 5 Very much so

4. Rate the performance of the team-members

Very rude and unorganised 1 2 3 4 5 Very polite and organised

5. Did you feel comfortable during the experience?

Not at all 1 2 3 4 5 Very much so

6. Were the questions easy to understand?

Not at all 1 2 3 4 5 Very much so

7. Regarding the amount of questions

There were very few,
more would have been needed 1 2 3 4 5 There were too much,
less would have been needed

8. Was the format of the questionnaire (online with Google Forms) easy to use?

Not at all 1 2 3 4 5 Very much so

9. Feel free to leave us any feedback, suggestions or comments you may have.

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