

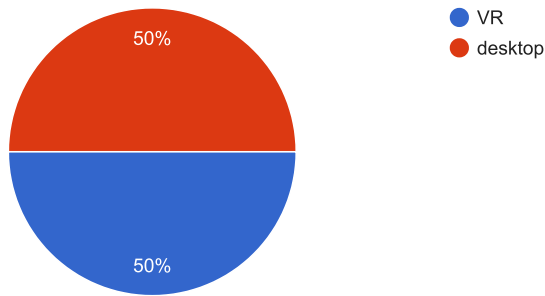
ZPOS 3D demo feedback

4 responses

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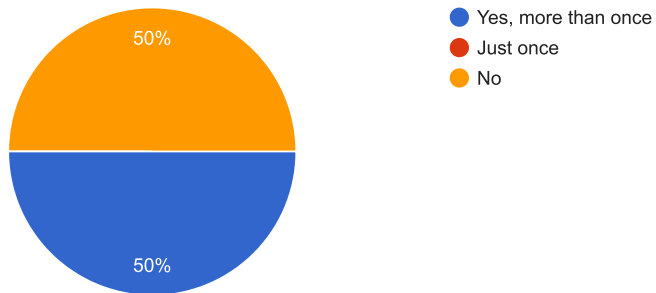
Which version of the software were you primarily using?

4 responses



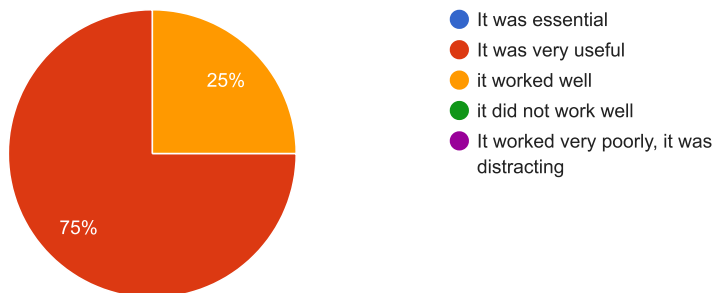
Have you tried the other version as well?

4 responses



Do you feel that the onclusion of this kind of demonstration was beneficial for the course?

4 responses



Were there additional topics in KIV/ZPOS that in your opinion could benefit from treatment in VR/3D?

2 responses

Nothing I can think of.

I can't think of any

Would you like to see this system used in other courses as well? Please use general English names of the courses (if any), ideally mentioning particular topics.

3 responses

I feel like linear algebra and mathematics courses could benefit from 3D visualization of some topics, perhaps even the numerical mathematics course. Any material relating to more than 2 dimensions could benefit from a 3D/VR demo. There have been some matlab graphs and demos in NM as far as I remember, but generally not that useful, mostly just function graphs with little extra information pointed out.

Perhaps the machine learning course (KIV/SU at UWB) - it might be easier to explain how linear regression works (gradient descent) + problems related to it.

yes it could be useful in other courses discussing 3D models/topology, modeling spatial curves / plates, or 3D functions

Have you ever considered using/actually used the system for discussion of the topics outside of the lectures? Please comment.

3 responses

No

I haven't used it, but I'd have liked to review some of the demos before the exam

Not yet but I'm going to - consulting the course work will be necessary.

Have you ever had the feeling that the system has been applied supefluously, without good justification? Please specify particular occasions.

2 responses

No

The demos were useful every time



Would you be willing to spend overall more time in VR during lectures? Please comment.

4 responses

I think that time spent in VR was appropriate.

Possibly, if the app was a little better

I don't think it was necessary but I wouldn't mind it.

only as part of some demonstrations during lectures as it was used now (it's hard to take notes and wear a vr headset :)), more time in vr rather during excercises

Do you feel that the exposition of the topics in KIV/ZPOS has benefited from using the VR/3D demos? Was it easier to understand the topics?

4 responses

Yes, it was beneficial to see the situation from more perspectives.

I feel the early demos concerning curvature made it much easier to understand the topic.

Not the topics as a whole, but the partial problems which were demonstrated using VR were definitely easier to understand in VR.

yes, especially the first few lecutres (curvatures, tangents, normals...), revising at the start of the lecture in vr was useful with certain topics

What was the main hindrance in using VR/3D? What was the main source of friction in using the software?

4 responses

A few times it took rather long time for the client to start because of malware check (MS Defender).

Bugs, the movement is a little nauseating. Can't reset mesh to original position if we grab it and move it by accident, then the drawings don't correspond with it.

The movement in the scene is somewhat clumsy, the step the camera takes when pressing the forward button is too big imo, so it's hard to position yourself in front of the object to see clearly.

it takes a bit of time to set up, sometimes makes me nauseous (its good to have a desktop equivalent)



Can you suggest new features for the software that you were missing during the semester?

3 responses

Snap mesh to original position

It might be useful to be able to save the 3D scene (with the drawings) for future studying.

fix bugs with drawing lines in space, less bright environment

What suggestions do you have for further improving the experience?

3 responses

It would be nice to see what was happening in VR classroom at the recorded lecture.

Possibly smoother rotation / rotation in smaller increments, it's a little disorienting

There were problems with connection of clients, also when rotating/translating objects loaded in the scene, the drawings the lecturer added did not rotate/translate with it.

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