

Comp140 Usability Analysis

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May 9, 2016

1 Game controller and Evaluation

The game controller was a minimalist design because the controls for the game were fairly simple. The design was inspired by the Wii nunchuck and the razer hydra. It featured directional buttons, and a trigger button at the end which made the player attack. The controller went through a few iterations before coming to it's final design. The initial design was made out of playdough and had a lot of issues due to the playdough being conductive. For the second sprint the controller was re-designed out of cardboard and paper, with electrical paint for the directional arrows, and playdough for the trigger button.

Heuristics by Jakob Nielsen[1]: UserControl and freedom:

Recongition rather than recall:

Aesthetic and minimalist design:

2 Recommended improvements

2.1 Improvement one:

The controller requires more ergonomic design as the design was too hard to hold and press the button at the end. This could of been done by reducing the length of the controller so that players with small hands could reach the end button easily. Furthermore the button also was not satisfying to press as it was very flimsy and moved about when it as pressed because it was only attached by a metal wire. This could of been improved by attaching the button to the controller and making it more robust.

2.2 Improvement two:

Another button was needed for the block mechanic, although with the version of the game I was working with did not have a working block mechanic, this would of been needed for the final version of the game where it did work.

3 Conclusion

If I was to re-design the controller I would have changed the size of the controller and made the design more rigid. I would of also added another button at the bottom of the controller so the player could block the attacks.

References

- [1] J. Nielsen and R. Molich, "Heuristic evaluation of user interfaces," in *Proceedings of the SIGCHI conference on Human factors in computing systems*, pp. 249–256, ACM, 1990.