

Steven's Puzzler Project Write-up

VRND VR Design

Course Quizzes & Write-Ups

Stephane_12 2018-04-13 20:54:18 UTC #1

Introduction

Puzzler is a project of Udacity VR Developer nano-degree (term 2). The Players has to solve a pattern based puzzle like Simon ([https://en.wikipedia.org/wiki/Simon_\(game\)](https://en.wikipedia.org/wiki/Simon_(game))). This write up presents the project achievement process that starts with Persona description, scene sketches & ideas, sound & light environment, user testing and deployment on a device. This entire process was executed iteratively (agile methodology).

Goals of this write up :

- Game description, ideas and scenarii to be sure the audience will understand all the concepts (sketches and screenshots of a beta version help to materialise).
- First tests feedback. They are useful to improve the game iteratively.
- What are the next amazing steps likely to interest the audience.

Outcome - Checkout the final video

https://youtu.be/mLylusA_xxc

Persona



Age: 42

Occupation: Banker

Quote: VR could allow me escaping this crazy world.

About: Steven loves his job even though it's very stressful. To reduce stress, Steven plays non-violent games. He plays even at his job during its pauses or at lunch time. Steven like short but challenging games. He is married and has two children sometimes Steven is playing with.

VR

Experience No VR experience but a lot of game playing on computer and mobile device.

Level:

Sketches

Enter to Paradise

The player must reproduce the orbs sequence to enter to Paradise.



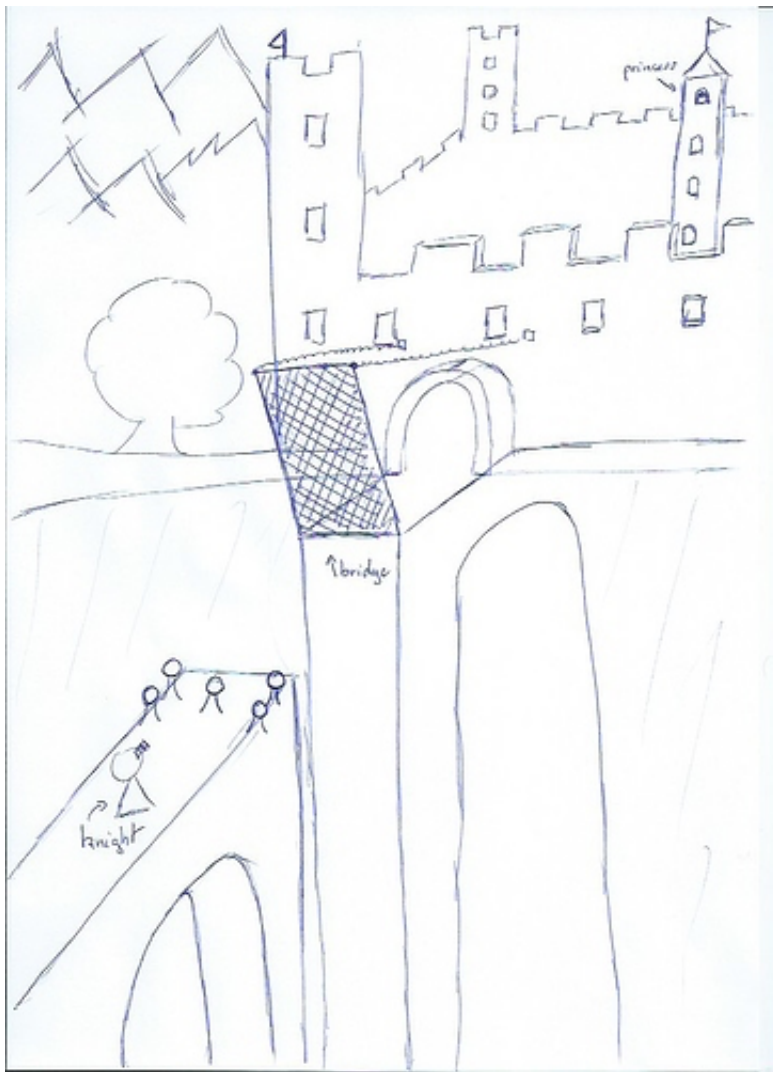
Traffic Jam

The player must reproduce the orbs sequence to stop the traffic and cross the road.



Save the Princess

The player must reproduce the orbs sequence to open the drawbridge and save its lovely Princess.



Scene

Even I like “Save the Princess” scene idea, I will implement the “default” Puzzler scene using the starter project assets (I’m not a designer so it’s hard to draw all scene elements in 3D).

To improve the “reality” sensation or mood, here few possible improvements :

- Flame effect / particle in all torches (with different colours if possible).
- Add a Joker or King’s Fool in the center of the scene. Its hat balls could represent our orbs. Not implemented because of lack of graphic designer.
- Add a dark night sky.

Testing the Scene

The first light environment test wasn’t a success.

The tester didn’t like the orb’s size (too big) and the violet spot light.

He liked the real torch fire effect.

Question

How big you think you are in this experience ?

Can you describe the mood / atmosphere ?

Is there anything that you’d like to look at but that’s difficult to see ?

Tell me about your experience ?

Answer

The room is big enough. The orbs are too big in my perspective.

The walls are painted with gold. I like the torches.

I cannot really identify what is outside the door. (At the stage, no mountains and skybox was implemented).

It was a very nice immersive experience.

Did you enjoy the experience (yes / no) ? Yes

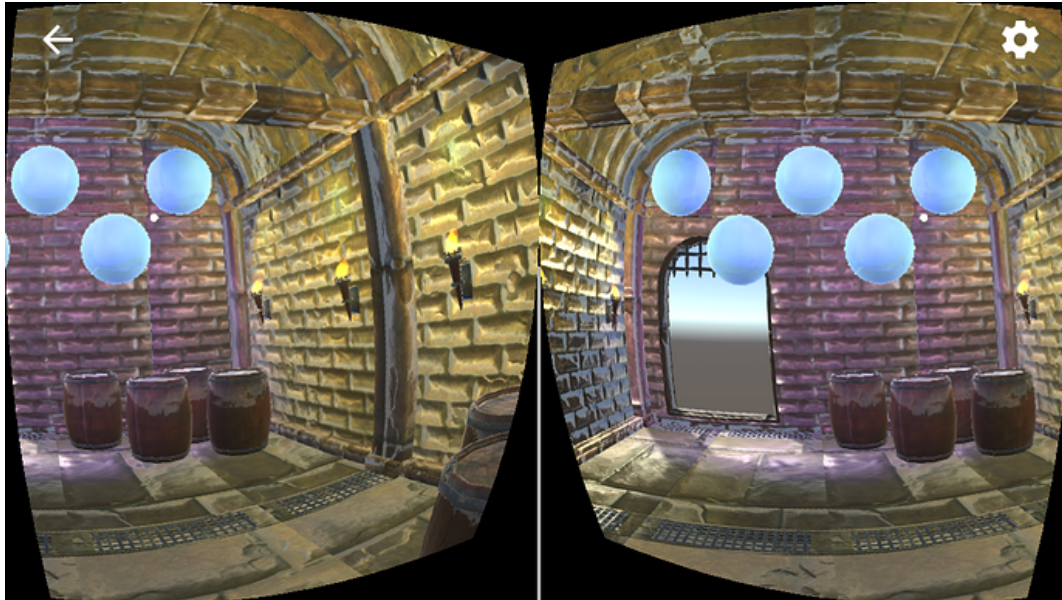


Fig.1 : First light environment

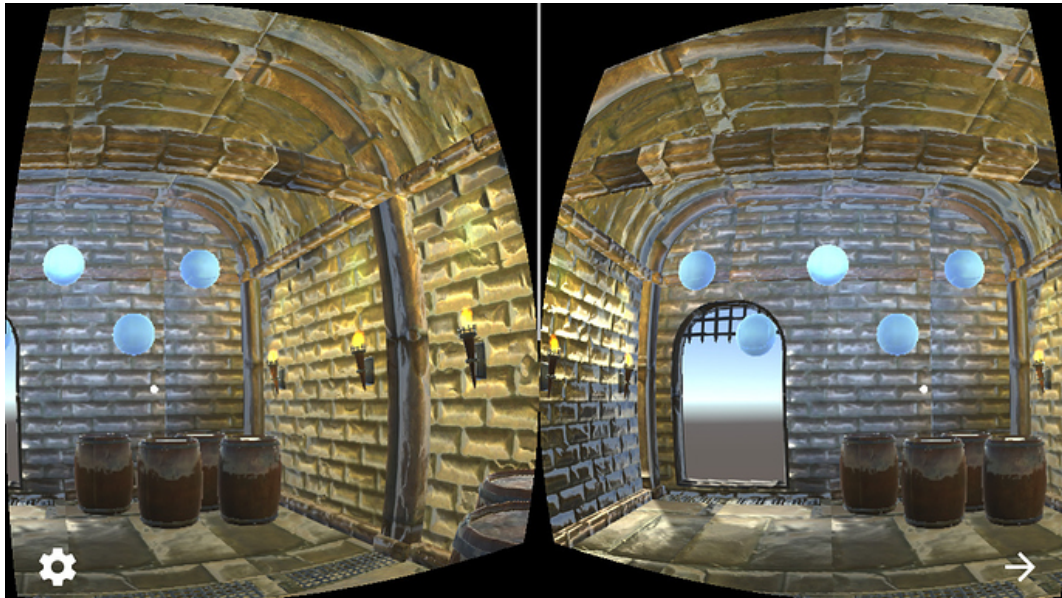


Fig.2 : Second light environment

The tester liked it. Smaller orbs and the blue spot light matches the “light” of the orbs.

Graphical User Interface

Start UI

- Introduce the player experience
- Tell the player what to expect
- Begin the puzzle

Restart UI

- Tell the player if he/she has succeeded
- Give the player to play the game again

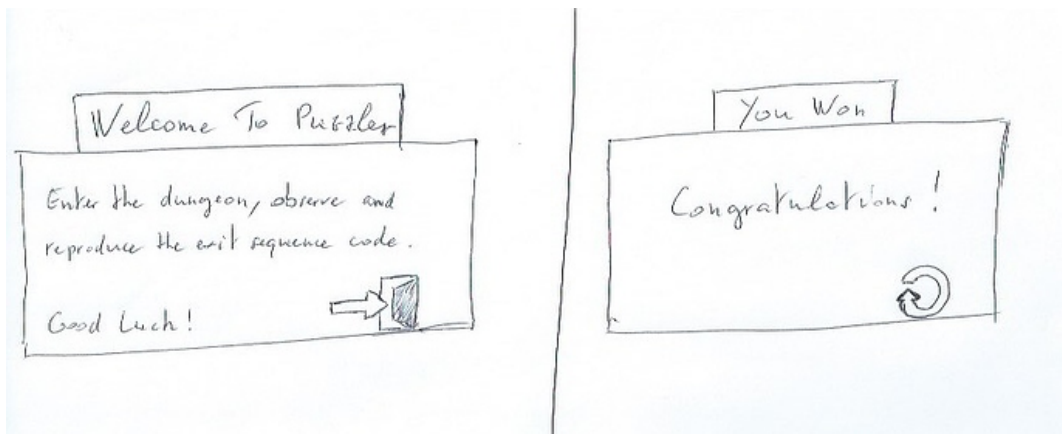


Fig.3 : First UI

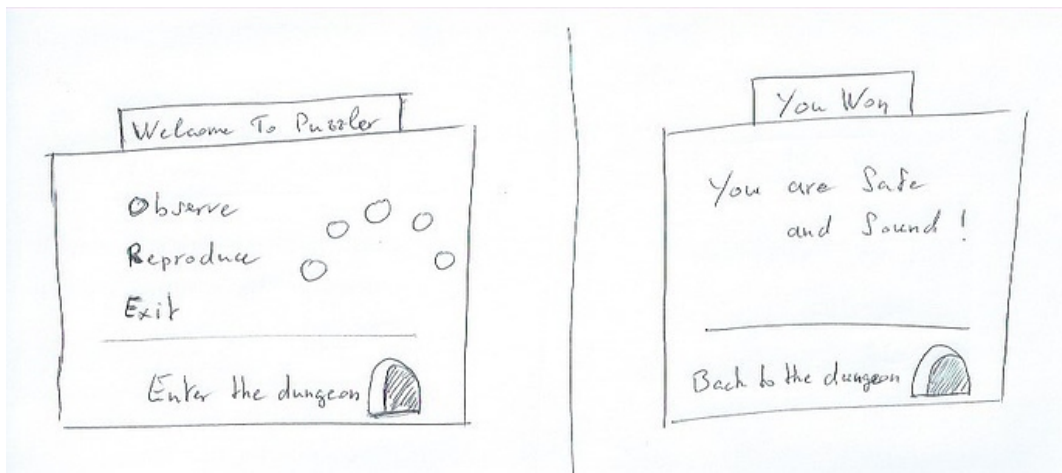


Fig.4 : Second UI

I chose the text of First UI sketch because it explains what to do/how to play.

And I chose the buttons of the second UI sketch because I liked the idea of a dungeon door. (Buttons of the first UI look like a standard application).

GUI - User Testing

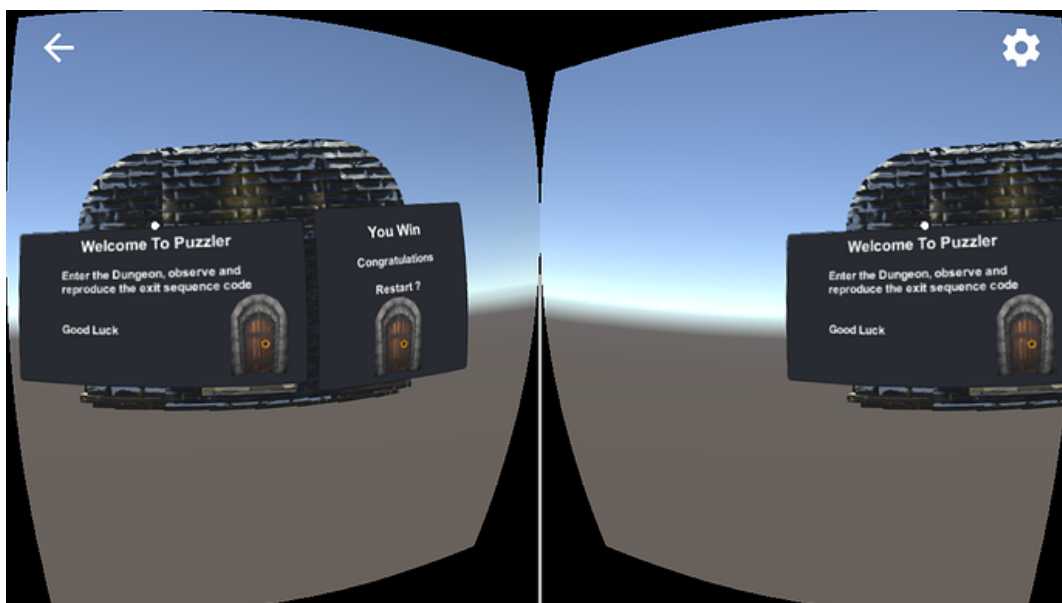


Fig.5 : UI deployed

Question

Do you see some panels in front of you ? Yes giant panels ! Good explanations.

What do you think these panels are for ? They are dedicated to start and restart the game. They look floating.

Answer

Do you guess how to start the game ? Yes, I suppose I have to click on the door.

Movement - User Testing

Question

How did you feel about the speed of this first movement (too slow, too fast) ?

Did you feel sick or uncomfortable ?

Did you notice any sort of height changes or anything disorienting in the movement ?

Answer

It was fine. I had time to see the entrance and progressively discover inside.

No. But a wahoo sensation.

No, but during the exit movement, I went through the left orb.

Audio and Visual Feedback - User Testing

Question

Did you like the audio and visual feedback ? Yes, the night, the starry sky and the ambient sounds are consistent.

Answer

Breakdown of final project

Below, few screenshots of the final project.

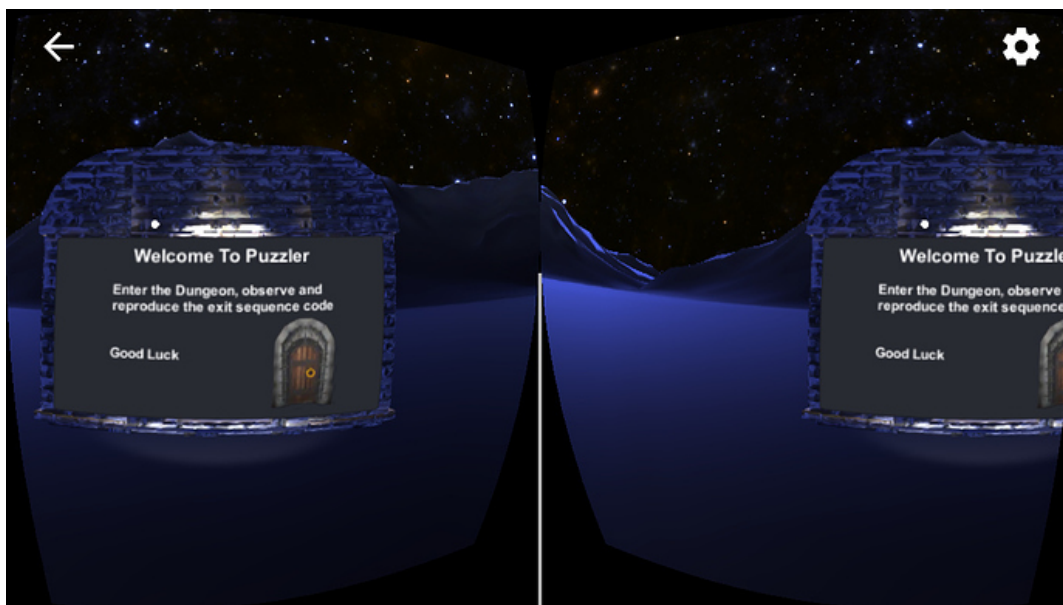


Fig.6 : Final Start UI

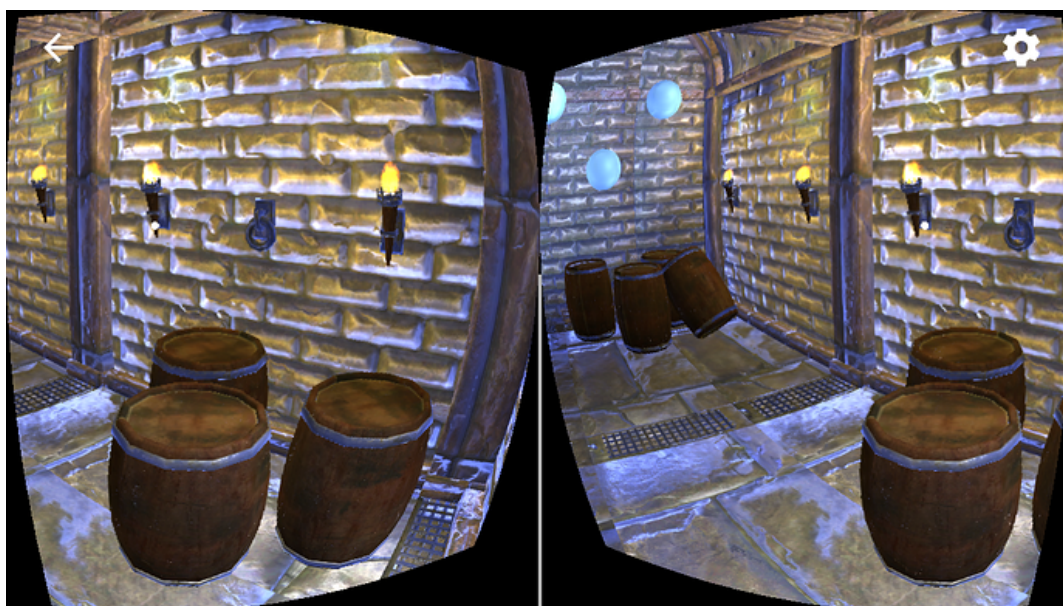


Fig.7 : Final Game (with fire particles)

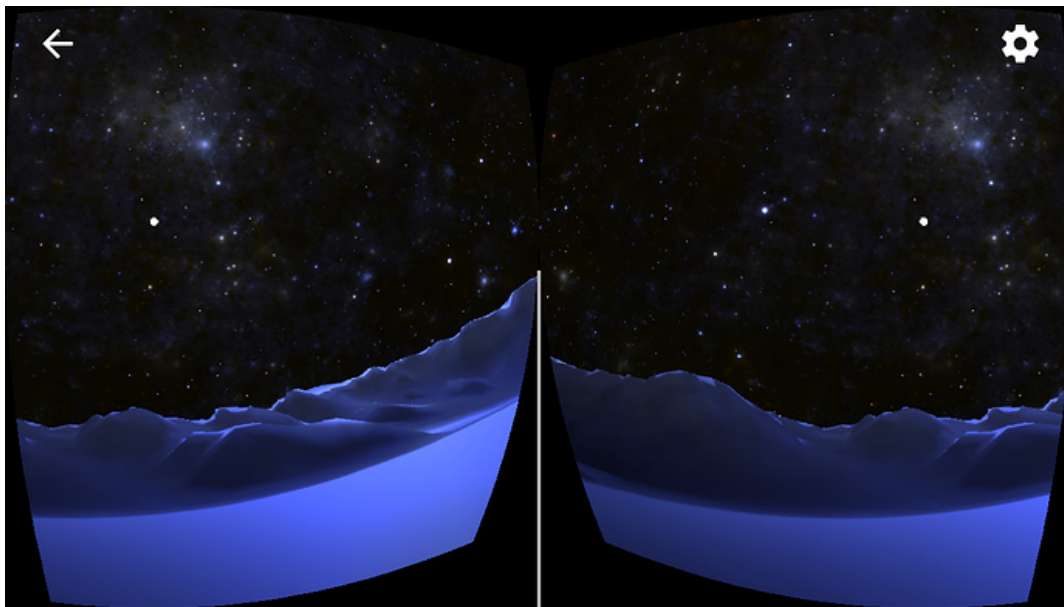


Fig.8 : The Starry Sky

Next Steps

I consider this version of the game as a beta version. The game logic works.

But in terms of scene, I'm not satisfied.

The final game should present several scenes the user could chose at the beginning of the game. To develop those additional scenes, I need a designer and a sound maker. Each scene has its own mood.

Conclusion

The Puzzler VR game was interesting in terms of iterative design and enjoying in terms of implementation.

As a developer, I would have liked to write a little more code.

Fortunately, the use of iTween and the audio source capabilities have been great discoveries.

There is a big difference between the initial idea and the final realization because I did not have enough time and neither the graphic designer skills.

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