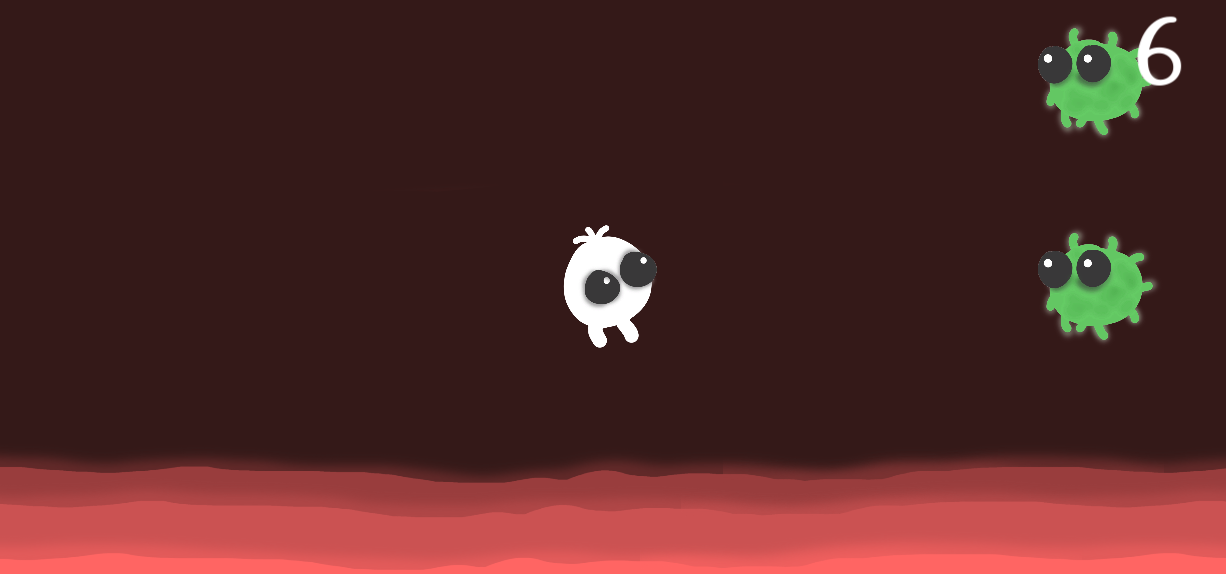
# Gesture Based Documentation

### Ethan Horrigan & Dylan Loftus

### <https://github.com/ethanhorrigan/Gesture-Based-Project>



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### Architecture

### Ethan

### 

The Myo armband is responsible for controlling the player (i.e. the movement) and Speech Recognition is used to control UI elements, such as pausing the game.

Myo Controls (Player Movement):

WAVE IN: Moves the player down.

WAVE OUT: Moves the player up.

For the Gesture Phase, the pose used must equal the gesture given in-game.

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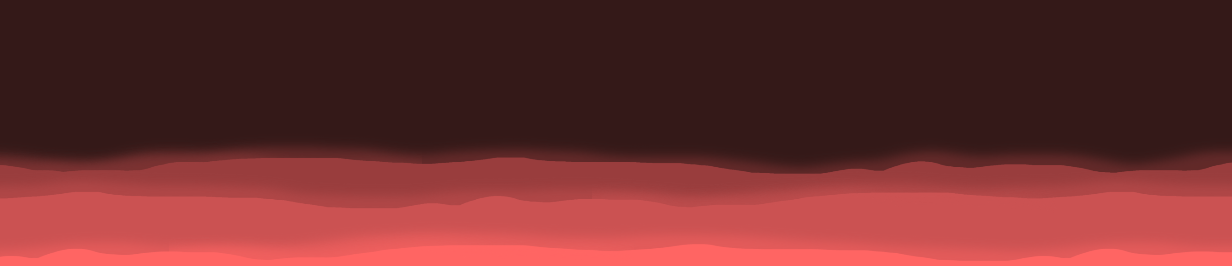
### Background Movement

### Ethan

Since the genre of this game is an Endless Side Scroller, the background moves instead of the player moving, giving the illusion that the player is moving.

The background sprites have a Starting X position and an End X position, the background is then translated on the X-axis. When the End of the sprite reaches the End X position, it is reset back to its Starting X position. To ensure this worked correctly, the starting X and ending X must meet at the same point or else the movement would not be smooth.

I created 3 “Wave” sprites using this movement at different opacity and speed to give the game a sense of depth.



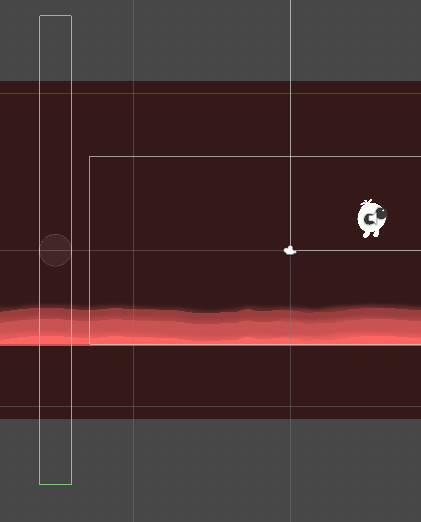
Adapted from: <https://answers.unity.com/questions/19848/making-textures-scroll-animate-textures.html>

### Score Handler

### Ethan and Dylan

Originally, Dylan had implemented the score handler which incremented based on how long the player was alive, we both agreed that refactoring it to an enemies-defeated based score handler would be better suited.

This was achieved by adding an invisible object off-camera with a collider, each time an enemy collided with this object, the score would increment.



### Artwork

### Ethan

The artwork was made using Adobe Photoshop with a Drawing Tablet.

TO DO::

### Sound Design

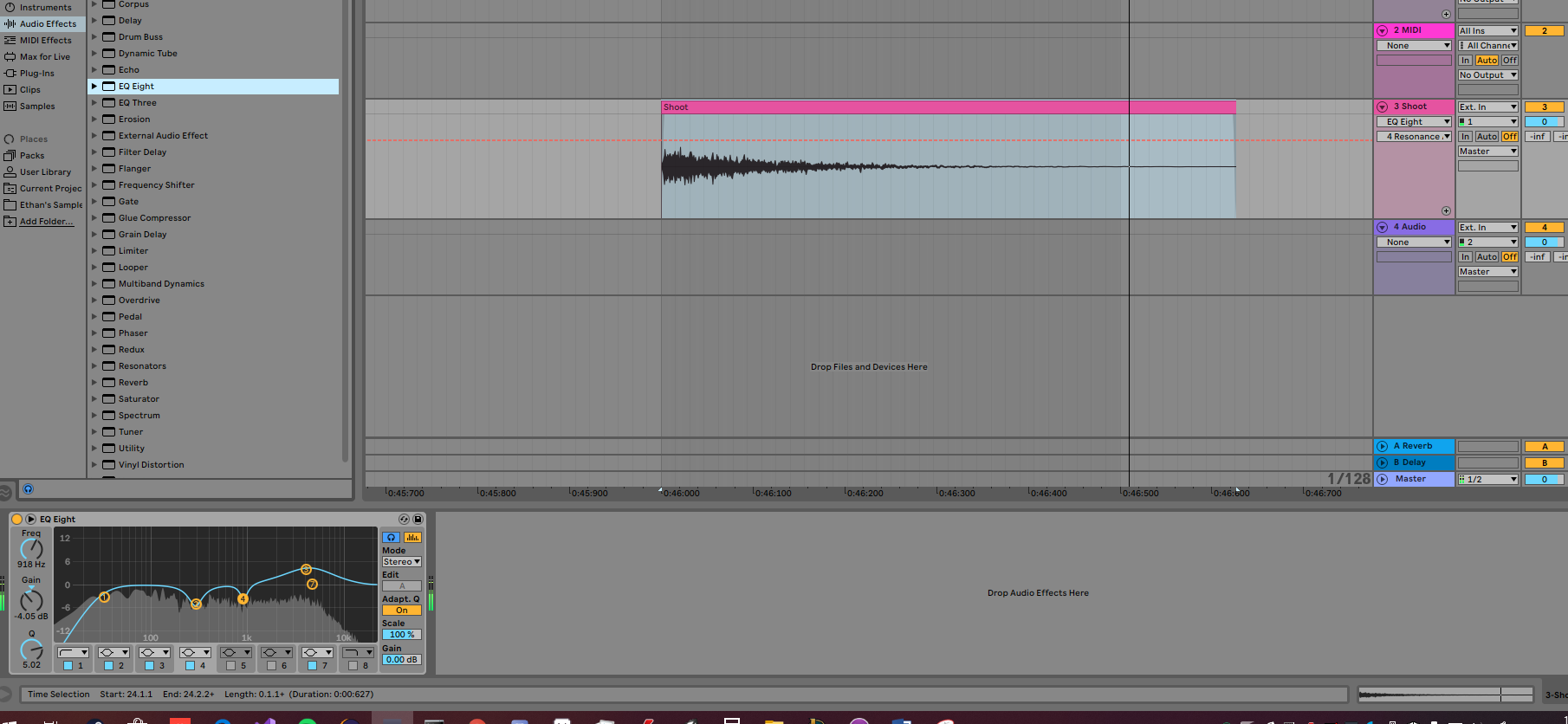
### Ethan and Dylan

We used <https://freesound.org/> to obtain sound effects. These sound effects were then imported into Ableton for further processing.

I did this because some of the sound’s quality were not great and I could also process them in any way with the use of equalizers, compression, reverb etc.

I compressed each sound effect with similar settings so the range of volume between sound effects were relatively similar.

Program: Ableton



### TITLE

### Ethan

### Libraries

### Myo SDK: <https://developerblog.myo.com/setting-myo-package-unity/>

### Speech: <https://docs.microsoft.com/en-us/windows/mixed-reality/voice-input-in-unity>

### References

[SoundFX] <https://freesound.org/>

[Font] <https://www.fontsmarket.com/font-download/burbank-big-condensed-bold>

[Music Playing Throughout] <https://answers.unity.com/questions/1260393/make-music-continue-playing-through-scenes.html>