

# ANALYSIS

 I used the **Unity** game engine (version: **2022.3.22f1** ) for this assignment.

## Overview

For this assignment I referenced some main menus, some gameobjects from different games to create a game with a main menu that's animated and a simple cutscene to go with it.

## References

### Menus

Menus	Reference Videos
Minecraft	<a href="https://youtu.be/VBSzQxnk6vY">https://youtu.be/VBSzQxnk6vY</a>
Doom Eternal	<a href="https://youtu.be/2EBm-MwJ5MQ">https://youtu.be/2EBm-MwJ5MQ</a>
Animal Crossing	<a href="https://youtu.be/ENLsTh1OhOw">https://youtu.be/ENLsTh1OhOw</a>

 All the reference videos were recorded by me and posted on my channel.

## Characters

- [Tommy Vercetti](#) the protagonist from [GTA Vice City](#)



[1]

- [Link](#) from [The Legend of Zelda: Breath of the Wild](#)



[2]

## Dynamic Objects

- [Moblin](#) from The Legend of Zelda: Breath of the Wild



[3]

- [Bokoblin](#) from The Legend of Zelda: Breath of the Wild



[4]

## Static Objects

- [Wooden Crate](#) from The Legend of Zelda: Breath of the Wild



[5]

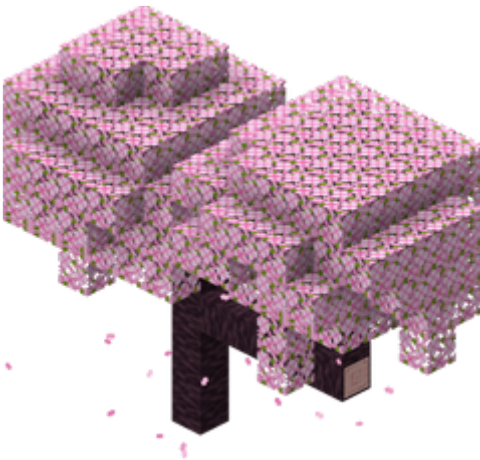
- [Boulder](#) from The Legend of Zelda: Breath of the Wild



[6]

## Environment

- [Cherry leaves particles](#) from Minecraft



[7]

- [Firefly particles](#) from Minecraft (was never put in the game, but it was announced)



[8]

## Analysis

### Menus



Video URLs for the analysis had been linked above in the reference section for all the menus that we will be talking about

#### Minecraft

Has a scrolling background while the splash text in yellow scales smaller and bigger showing a random message.

#### DooM Eternal

The player character is displayed on the right side of the main menu doing repeated idle animation while the podium he stands on has two torches attached to it which produces fire particles. When switching from menu to menu, the camera moves to the left side to show the new menu.

#### Animal Crossing

As the game boots up, you are sent into the title screen which is also the main menu. The games camera follows around a random citizen in your island while the "Press A" text does a wave animation.

## Characters

#### Tommy Vercetti

He is a character with a medium build-athletic build. Tommy's walking and running animations are relatively stiff compared to modern standards. If you try to attack while walking, his upper body's animation gets overwritten by the melee animation.

Animation can be found in the repos' documentation folder, named as [Tommy Vercetti.gif](#).

## Link

His animation is more refined and it gives the player character a more lively feel. Links character model uses a lot of IK for animations. Such as pushing boulders/crates or climbing up walls, his hand position or leg positions are not hand placed but done on the fly.

Animation can be found in the repos' documentation folder, named as [Link.gif](#)

## Dynamic Objects

### Moblin

### Bokoblin

## Static Object

### Crate and Rock

They both can be pushed by the player. At first, their movement is slow but they speed up the more the player pushes them. They are also affected by gravity. They give off particle effects when colliding or sliding against something.

 The GIF for this was taken from [https://youtu.be/OU\\_OqljNlkA?t=38](https://youtu.be/OU_OqljNlkA?t=38)

Animation can be found in the repos' documentation folder, named as [Link pushing crate.gif](#)

## Environment

### Cherry leaves particles

Falls down from the tree slowly and moves in the direction of the wind and gravity.

Animation can be found in the repos' documentation folder, named as [Cherry leaves particles.gif](#)

### Firefly particles

Moves around randomly at night and usually in clusters and rarely as an individual

 The GIF for firefly was taken from <https://minecraft.wiki/w/Firefly>

Animation can be found in the repos' documentation folder, named as [Firefly.gif](#)

## What changed since Stage 1?

In the [stage 1](#) of the assignment I did not submit the Blender prototype or the Unity project and to make things worse, even though I had submitted the documentation

(analysis.pdf), it did not have adequate analysis. This was caused due to my poor time management, but I've managed to add all of that and do a proper job at doing it!

**This time, I've added:**

- A polished Blender prototype
- A polished Unity project with both a menu and a cutscene
- A well written analysis with diagrams

## Assets by the others

### 3D Models

**Player** and **Enemy** taken from <https://www.mixamo.com/>



Knight D Pelegri





## Textures

- **Crate** by Joao Paulo (<https://3dtextures.me/2020/09/18/stylized-crate-001/>)
- **Level** textures by Kenney (<https://www.kenney.nl/assets/prototype-textures>)
- **UI** by Kenney (<https://www.kenney.nl/assets/ui-pack-rpg-expansion>)

## Animations

- **Breathing Idle**, **Male Action Pose** (*pushing*) and **Walking** were taken from <https://www.mixamo.com/>

## Sound Effects

- **Hurt** sound generated from <https://sfxr.me/>
  - To get the exact sound I created:  
<https://sfxr.me/#34T6PktrwZxCp5hA1UbsM8tokeuiUtbRywxavfNSbgp3myeMYSugwAbiwdCnunVK7DNSQmCVw2gVCMzWfLEue8homiNYaXw8ZWNjgCF4M3LKfmFiq9ejTaXiw>

## Skybox

- Fantasy Skybox FREE by Render King  
(<https://assetstore.unity.com/packages/2d/textures-materials/sky/fantasy-skybox-free-18353>)

## Images from external sources

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1. Image taken from [https://en.wikipedia.org/wiki/Tommy\\_Vercetti](https://en.wikipedia.org/wiki/Tommy_Vercetti) ↩
2. Image taken from [https://en.wikipedia.org/wiki/Link\\_\(The\\_Legend\\_of\\_Zelda\)](https://en.wikipedia.org/wiki/Link_(The_Legend_of_Zelda)) ↩
3. Image taken from <https://www.ign.com/wikis/the-legend-of-zelda-breath-of-the-wild/Moblin> ↩
4. Image taken from <https://www.ign.com/wikis/the-legend-of-zelda-breath-of-the-wild/Bokoblin> ↩
5. Image taken from [https://zeldawiki.wiki/wiki/Wooden\\_Box](https://zeldawiki.wiki/wiki/Wooden_Box) ↩
6. Image taken from <https://zeldawiki.wiki/wiki/Boulder> ↩
7. Image taken from <https://minecraft.wiki/w/Cherry> ↩
8. Image taken from <https://minecraft.wiki/w/Firefly> ↩