Capsule-Man 2

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Introduction

- Why we decided to make a game
- Playthrough
- The creation process
- Reflection



Learning Unity and C#

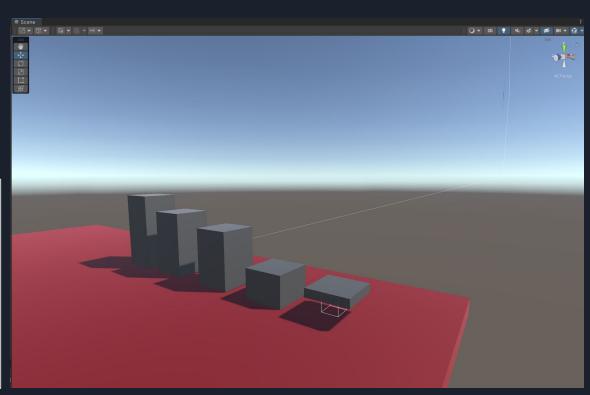
- The internet
- Youtube
- Unity API documentation
- Stack overflow
- Expert from expert night

Level 1 Design Process



Start Simple

- No textures or models
- Just necessities
- Make sure everything is working



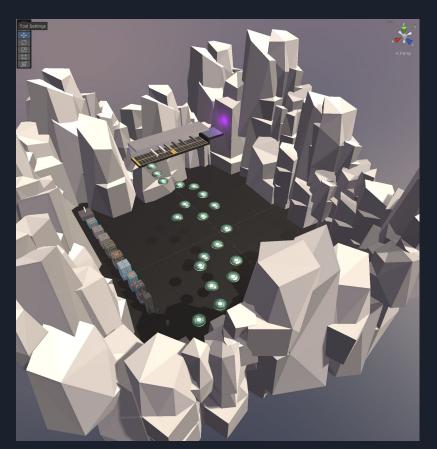
Finish Map

- Layout of full level map
- Still no textures or models
- Completion of parkour



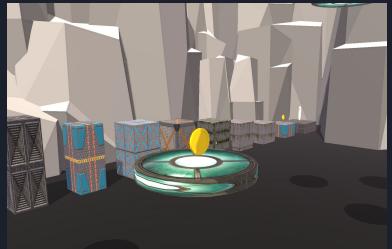
Add Textures and Map Design

- Add textures and models
- Rocks and jump textures

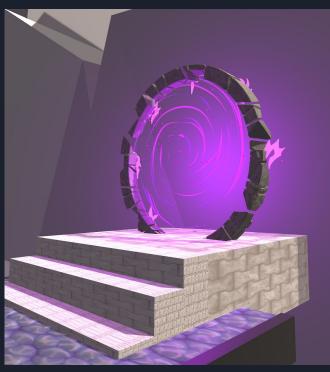


Add Details, Extras and UI

- Link to other levels
- Crosshair User Interface (UI)
- Coins







Music

- DTC taught us Garageband
- Different genres for each level
- Menu theme





Particle Packages

- Add interest to visual effects
 - Fog
 - Snow



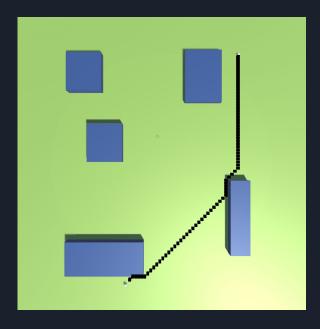


Enemy Pathfinding Process

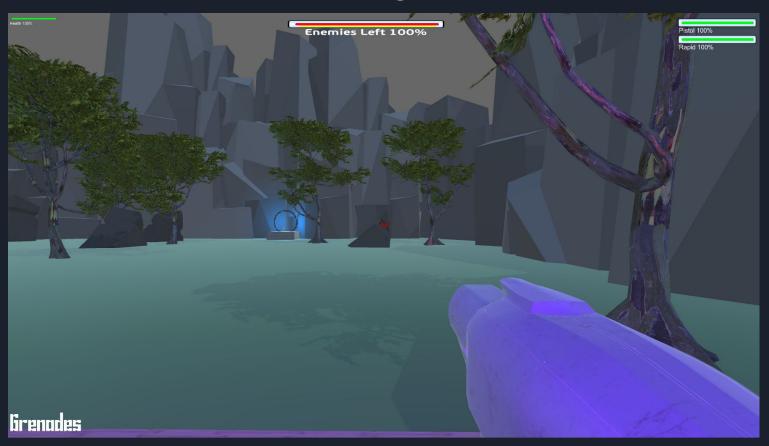
-Three numbers:

- G cost
- H cost
- F cost

-Nav-Mesh

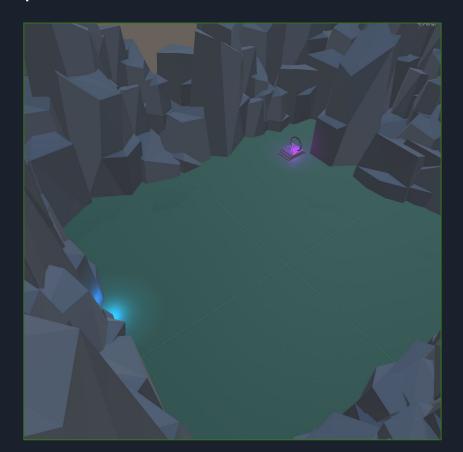


Level 2 Design Process



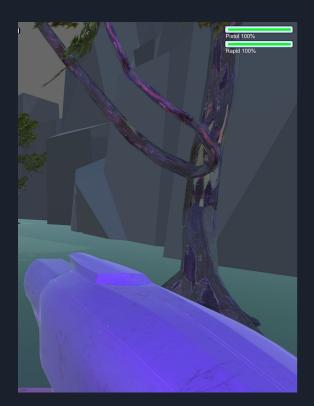
Use Same Starting Steps

- Same movement
- Similar map designs
- Change in lighting and scenery



Add Weapon and Firing Capabilities

- Required learning about instantiation
- Display ammo in quicktime
- Check for collision with enemies



Enemies

- Designed in Blender
- Tracking stats for each enemy
- Pathfinding
- Attack / damage to player



Add Additional Details

- Grenade option
- Extra obstacles (trees and rocks)
- Sky
- Coins
- Music

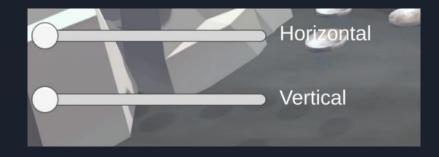


Menu Design Process



Receive Inputs

- Sensitivity inputs
- Button returns



```
public void ChangeH (float val) {
    PlayerStat.sensH = val;
}
public void ChangeV (float val) {
    PlayerStat.sensV = val;
}
```



Tips and Stats

- Counters for different stats
- Tips on how to survive

If you are low on health stand by a medkit to regain 10 health



Deaths:

KILLS:

Coins:

```
private void Update() {
    txt.text = "DEATHS: " + PlayerStat.deaths.ToString();
    stat.text = "KILLS: " + PlayerStat.kills.ToString();
    coins.text = "COINS: " + PlayerStat.coinCollect.ToString();
}
```

Putting the Game Online

- Using Simmer.io
- Game address:

https://simmer.io/@_Frate_/capsule



Software Used





blender

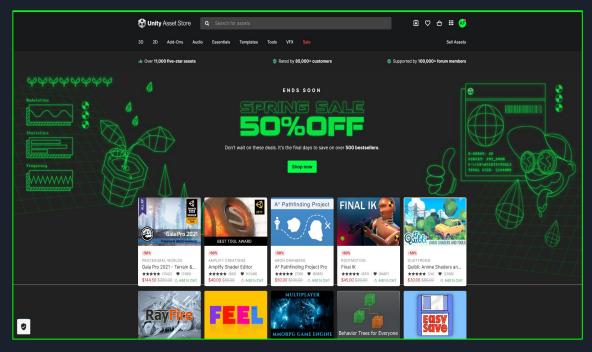


Visual Studio Code



Unity Asset Store

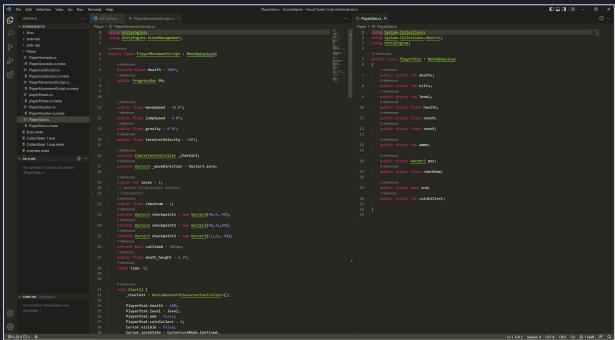
Place to download useful textures and models



Visual Studio Code

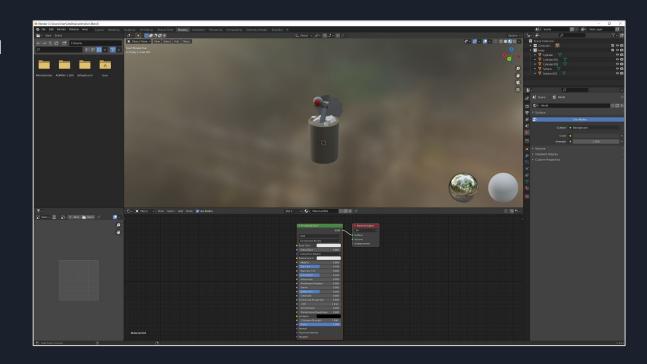
How the game was coded





Blender

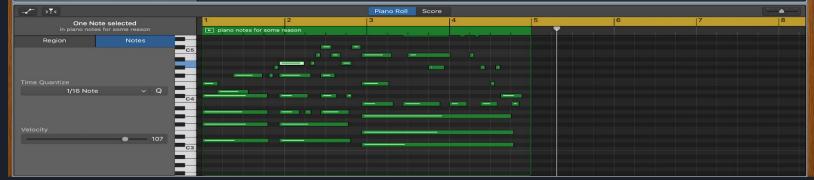
How models were created, edited and textured



Garage Band

- Easy to use
- Knew the basics



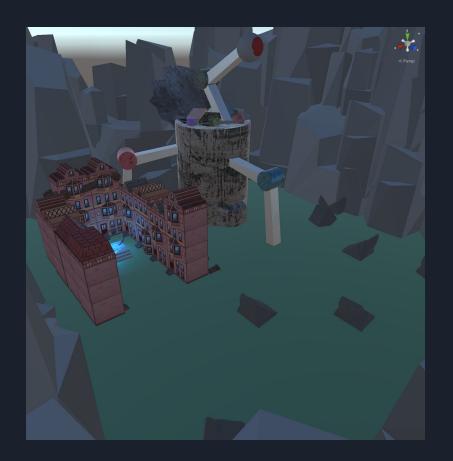


Working As a Team

- More and different Ideas
- Work Amount
 - Being able to do more
 - More detail
- Designating specialties

With More Time...

- Final Boss Level
- Rendering settings / graphics
- Database stats such as High Score



Future

- 2D Game
 - More thematic
 - More time
 - More ambition
 - Publishing plans →



Thank You