

Urity Project: Make a

game like The Legend of Zelda

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Press Play



Level:

Level 1: The Startup

Our tutorial was from a youtube video made over five years ago, which meant that our video and our software are completely different. Unity compared to itself five years ago has many changes that make following the videos instructions difficult.

Unity: A software to make the game, import C# code and animate.

Visual Studio: A software used to code and then saved to a file in a Unity project.

*GFX: Our art folder, inside contains our pixelated sprites, backgrounds, and tiles for our project. Visual Studio

Level 1: Baby Steps



Our first step was to download the software that gives birth to our game, unity. After using a VM to download Unity because CPSD blocked it, we then had to use the same VM to download the art assets (the sprites, the overworld and objects). In our VM we used DuckDuckGo. After, we made a file in a VM of all the art assets and other blocked downloaded softwares from CPSD, we shared that file to the rest of the group in order to start the project.







Level 1: The Birth

Once our downloads finished, it was now time to set up our game in Unity. In Unity, we had to select what game we would be making, a 2D game. All of us had to make folders and import many other assets into our game. We also had to slice some of our art images in order to create our sprites. Once we finished naming our images and folder, it was now time for us to make our images come to life.



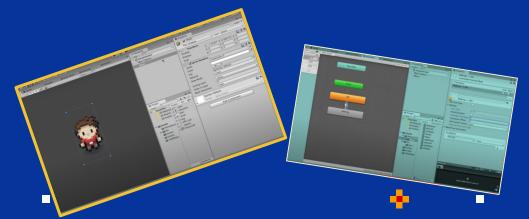


Level: 2

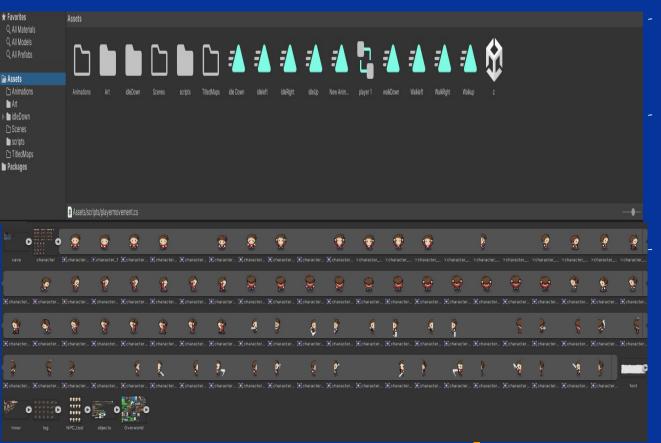
Level 2:Movement & Animation



- Next step would be setting up animations to build the setting of the character.



LEVEL 2 : Animations and characters

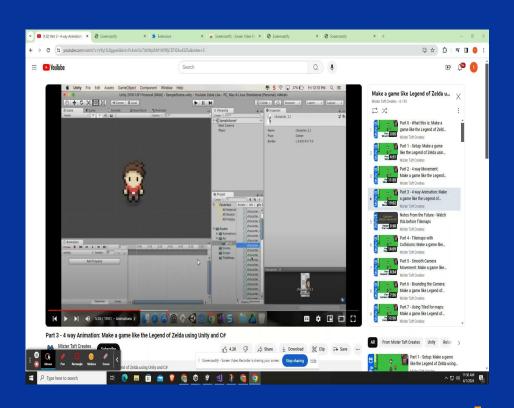


One of the most important files connected to assets is annmations.

Each of the 'ide/walk' files that you see correspond to the movement of the character when connected to one of these files.

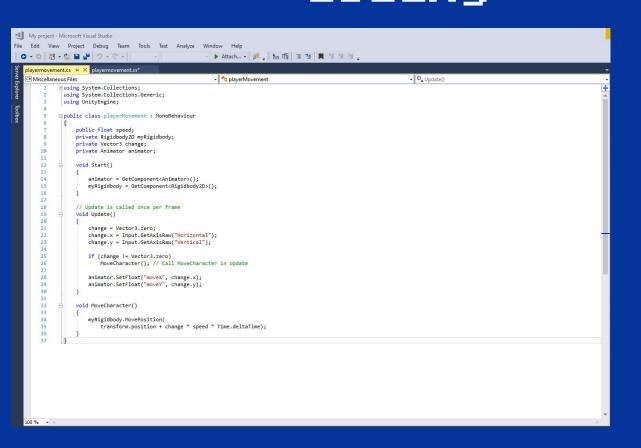
'idle' only corresponds to what happer when the character is standing still, 'Walk' is for when the character is moving.

Level 2 :Picking characters for specified movements



- This video will be an example of characters being add to one of the files mentioned above; 'Walk Up'.
- Provide a walkthrough on what happens in the video.
- example of what you would have to do for the
- character to 'Walk Up'.

Level 2: Player Movement coding - Player r



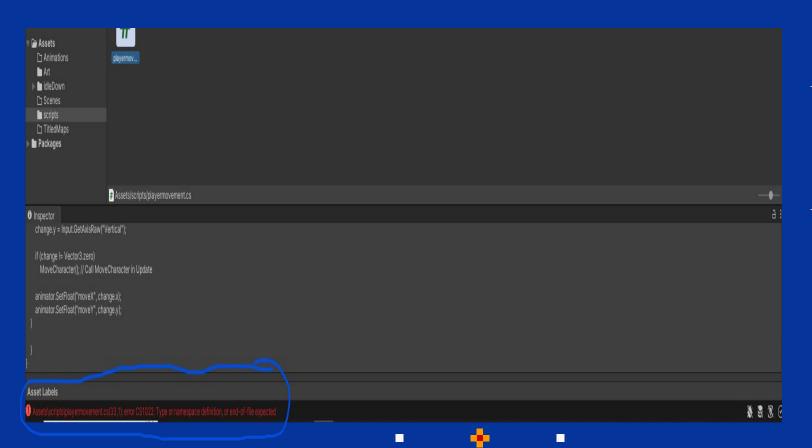
 Player movement is used throught our project.

After adding character corresponding to each of those files, you then have add code to the player movement so that movement is possible.

 Without this aspect being there, our previous progress wouldn't/work run on unity.

- Address bugs.

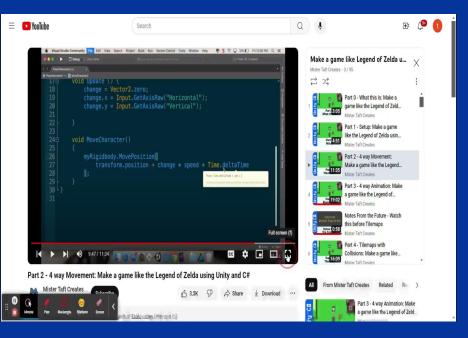
. Level 2: Unity error



- Tried to run player movement and didn't work.

Error on unity can be seen below when trying to run code.

Level 2: player movement errors/character moving



- Way in which you can identify a unity error
- Example of a unity error.

Character moving and advancing onto level 3.

Level 3: Title Card

Goal: A title card will pop up whenever the character move to a new room

Demo result:



Level 3: Title Card

Instruction:

Create a Canvas

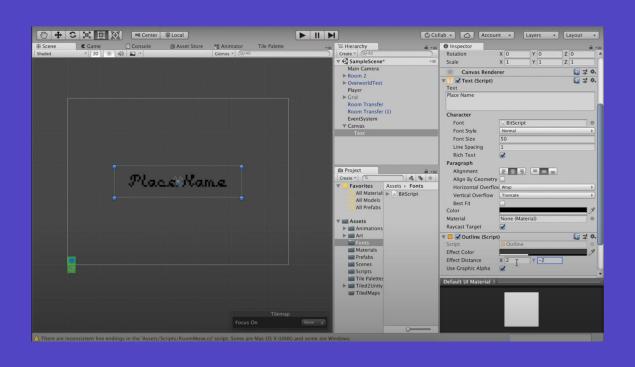
Inside the Canvas, create Text

Edit the text

Font

Size

Alignment



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Level 3: Title Card

```
Visual Studio Community File Edit View Search Project Build Run Version Control Tools Window Help
                                                                                23% ■ Mon 4:15 PM Q :=
                                                                                 Q~ Press '36,' to search
        ☐ Debug → ☐ Unity Editor
                                       A Youtube Zelda Like.sln is already opened
                                                       > code in room Move
 1⊡ using System.Collections;
                                                                script
    using UnityEngine;
   Lusing UnityEngine. UI; -> allow us to access Text object
 6 public class RoomMove : MonoBehaviour {
          public Vector2 cameraChange;
          public Vector3 playerChange;
          private CameraMovement cam;
10
         public bool needText; > does this room need text or not public string placeName; > what would that text be if needed? public GameObject text; > text object
13
          public Text placeText; > reference to the text of the obj
15
          // Use this for initialization
17亩
          void Start () {
               cam = Camera.main.GetComponent<CameraMovement>();
18
```

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Level 3: Title Card

```
if(needText)
           StartCoroutine(placeNameCo());
           if the room need text then
private IEnumerator placeNameCo()
   text. SetActive(true); - set the object active
   placeText.text = placeName; > change the text part of the
                                              object to place
   yield return new WaitForSeconds(4f);
   text.SetActive(false);
                                                           name
                                      after 4s make
the text disappear
```

Level 3: Title Card

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'⊞ Hierarchy 1 Inspector Create * Q*All ▼ € SampleScene* Tag Untagged Main Camera Select ▶ Room 2 ▶ OverworldTest Player Position ▶ Grid Rotation Room Transfer Scale FrantSystem ▼ ■ ✓ Box Collider 2D **▼** Canvas Place Text Material Is Trigger Used By Effector Used By Composite Project Auto Tiling 4 9 4 Create * Q Offset **▼** Favorites Assets > Scripts Size All Material: CameraMovemen Edge Radius All Models PlayerMovement | Info All Prefabs RoomMove

▼ ■ Assets

► Art

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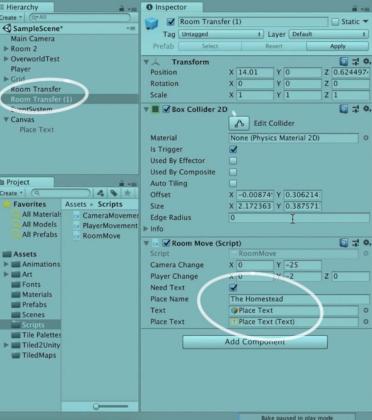
Fonts

Materials

Prefabs

Scenes

Scripts



Level 3: Dialog box

Goal:

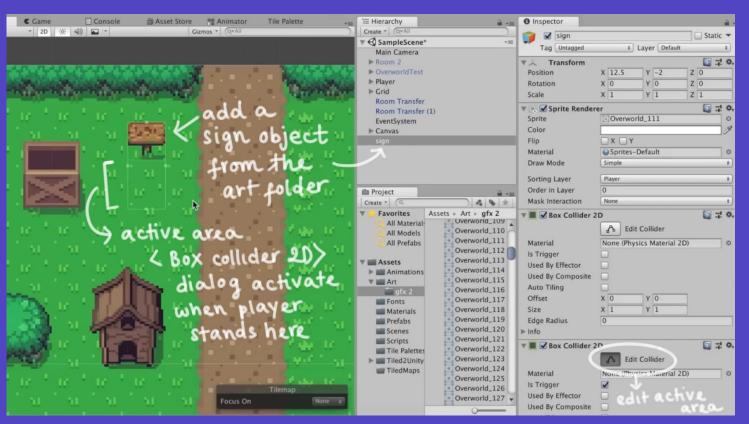
A dialog box will pop up whenever the character is standing in front of a sign

Demo result:



Level 3: Dialog box

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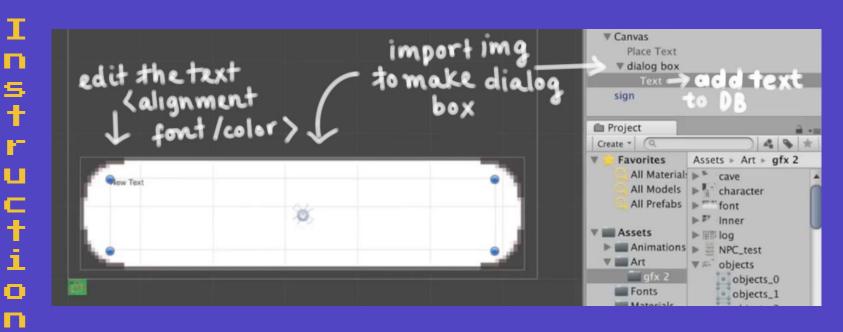


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Level 3: Dialog box

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Level 3: Dialog box

```
using System.Collections;

using System.Collections.Generic;

using UnityEngine;

using UnityEngine.UI; → import UI file

public class Sign: MonoBehaviour {

public GameObject dialogBox; → reference to the DB

public Text dialogText; → reference to the text in DB

public string dialog; → sentence dialog text will change into

public bool dialogActive; → determine whether DB show or not
```

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Level 3: Dialog box

```
private void OnTriggerEnter2D(Collider2D other)
   if (other. Compare Tag ("Player")) -> check if the object is the
                           I confirm that the player
                                     is in range
private void OnTriggerExit2D(Collider2D other)
   if(other.CompareTag("Player"))
       playerInRange = false; -> confirm player is out of
                                         range
```

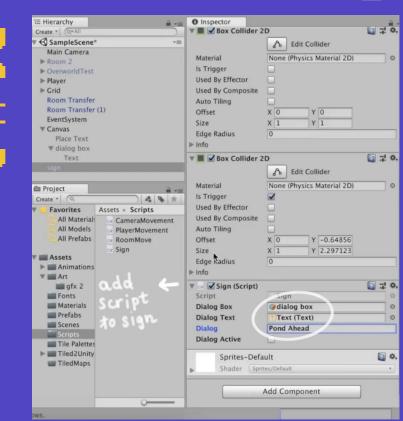
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Level 3: Dialog box

```
18
       // Update is called once per frame
       void Update () {
19亩
20白
            if(Input.GetKeyDown(KeyCode.Space) && playerInRange)
                if(dialogBox.activeInHierarchy)
                                                         if space bar is pressed t
  3 deactivate
                    dialogBox.SetActive(false);
              }else{
                                                          player is in range
                    dialogBox.SetActive(true);
 30B gone)
                    dialogText.text = dialog;
                                                DB Text
```

Level 3: Dialog box

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Level:



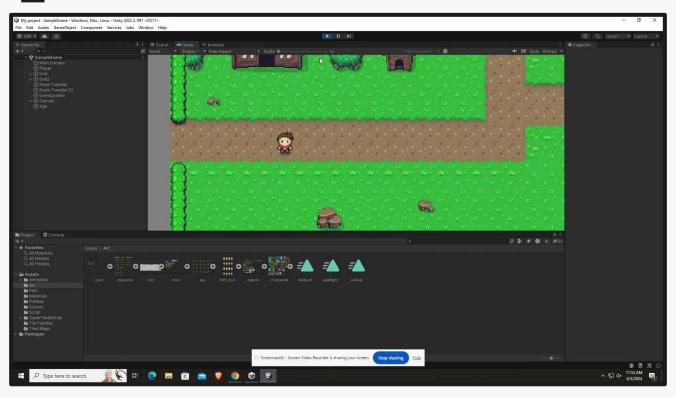
Definitely our hardest obstacle in making the project was facing challenges when it come to random bugs and errors in our game. It could be a code error, a tilemap error or even a small mistake we made that would change our game forever. Sadly, some of our projects still have these errors that make our game unplayable as of right now.





Level 4: Complex Bug Ex:





Level 4: Overcoming (**) Challenges

Excluding the errors that may have completely messed up someones game, we had many bugs that were difficult to fix, yet as a team we made sure to help each other with the problems that we were facing in order to have our projects stay on the right track. At one point that even meant changing and doing something different than what the tutorial was teaching us. We improvised many times which helped us use smart and critical thinking skills in order to avoid minor problems that may turn out big.



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Level X: Potential



Sadly the amount of time needed to really complete a majority of the game is longer than we had. Of course we knew that so our project was mainly about what takeaways we could gain from learning on how to make a game. Although we didn't get that far, the potential for the project surprised us much as we didnt even know how far it would come. Since we couldn't finish the project ourselves, these are videos and pictures of what the project should look like...



ANY QUESTIONS?