

# Player Animations 2D

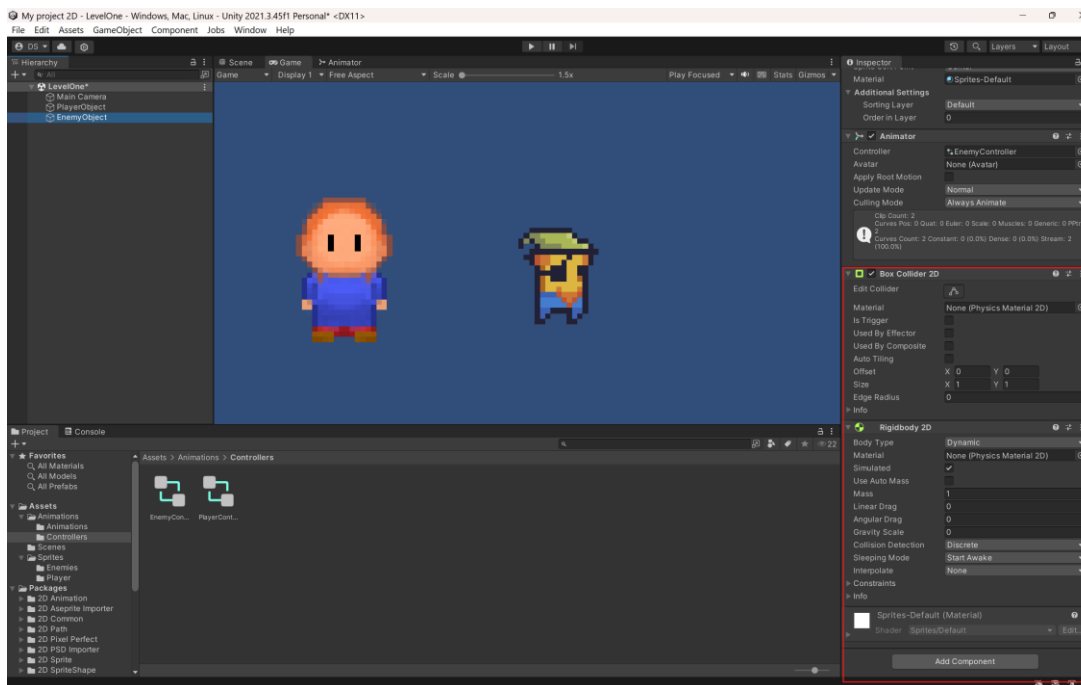
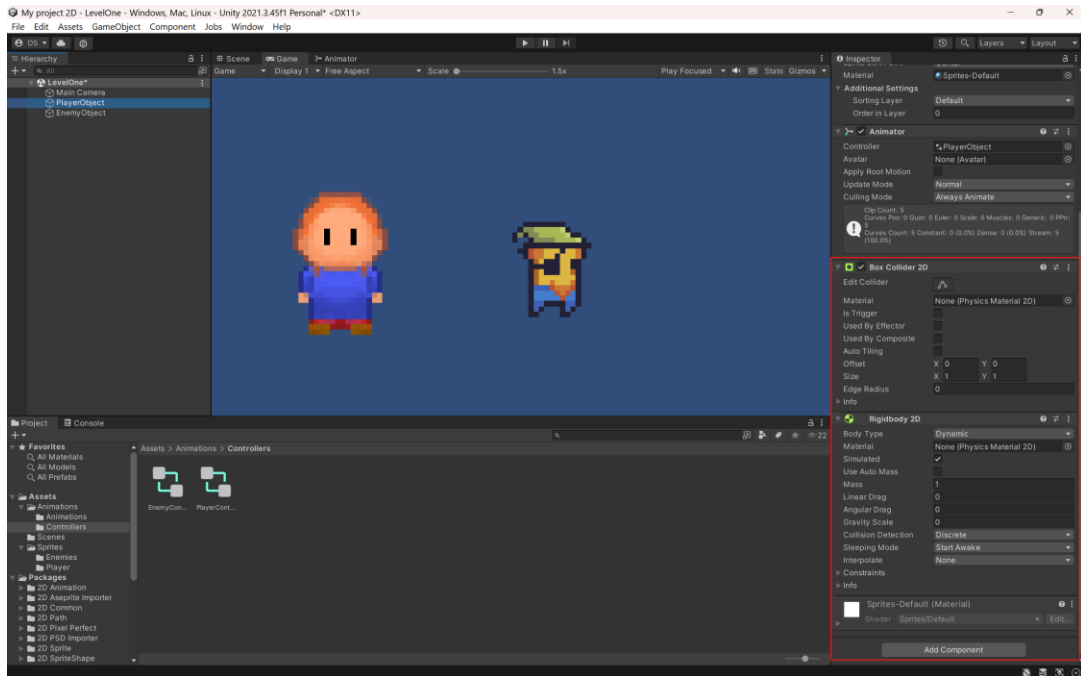
## Segunda parte

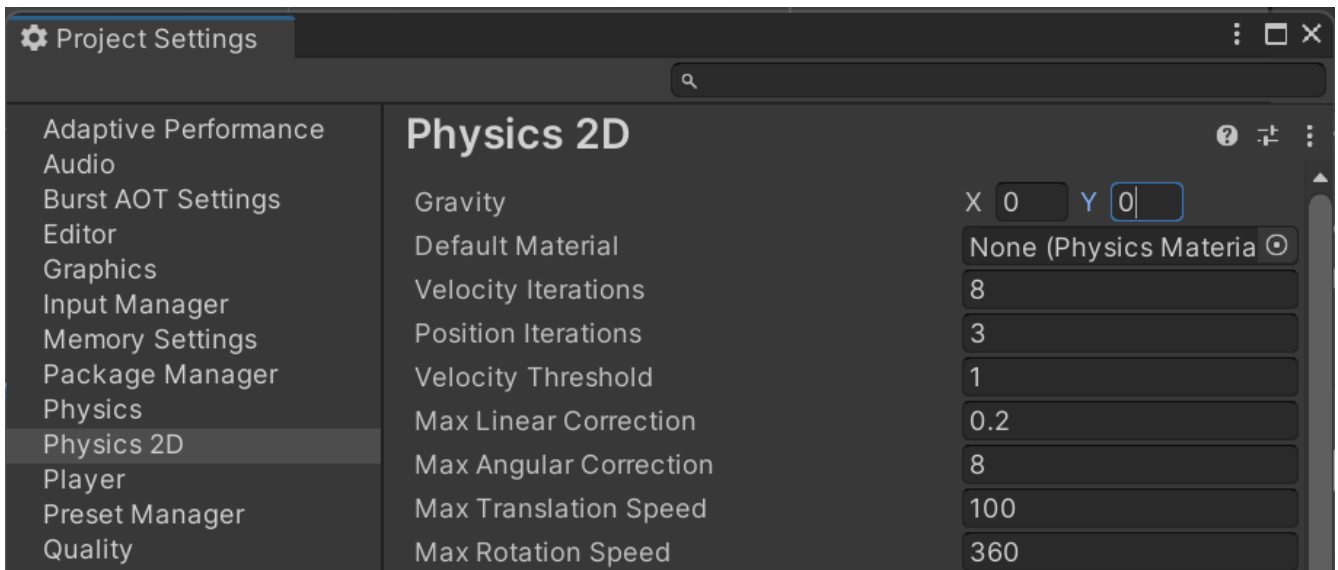
Dalia del Carmen Mendiola Soto GIDS5101

### Link de video de funcionamiento

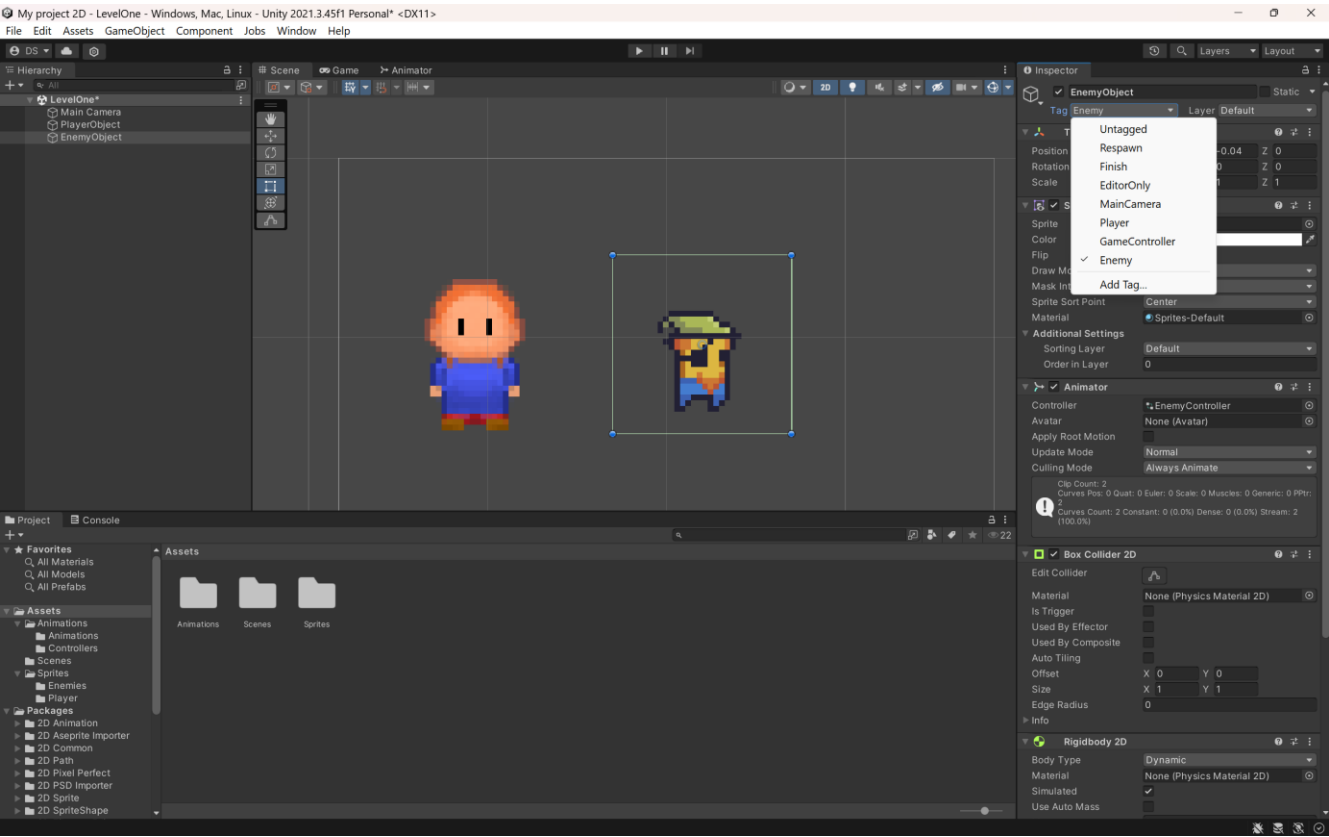
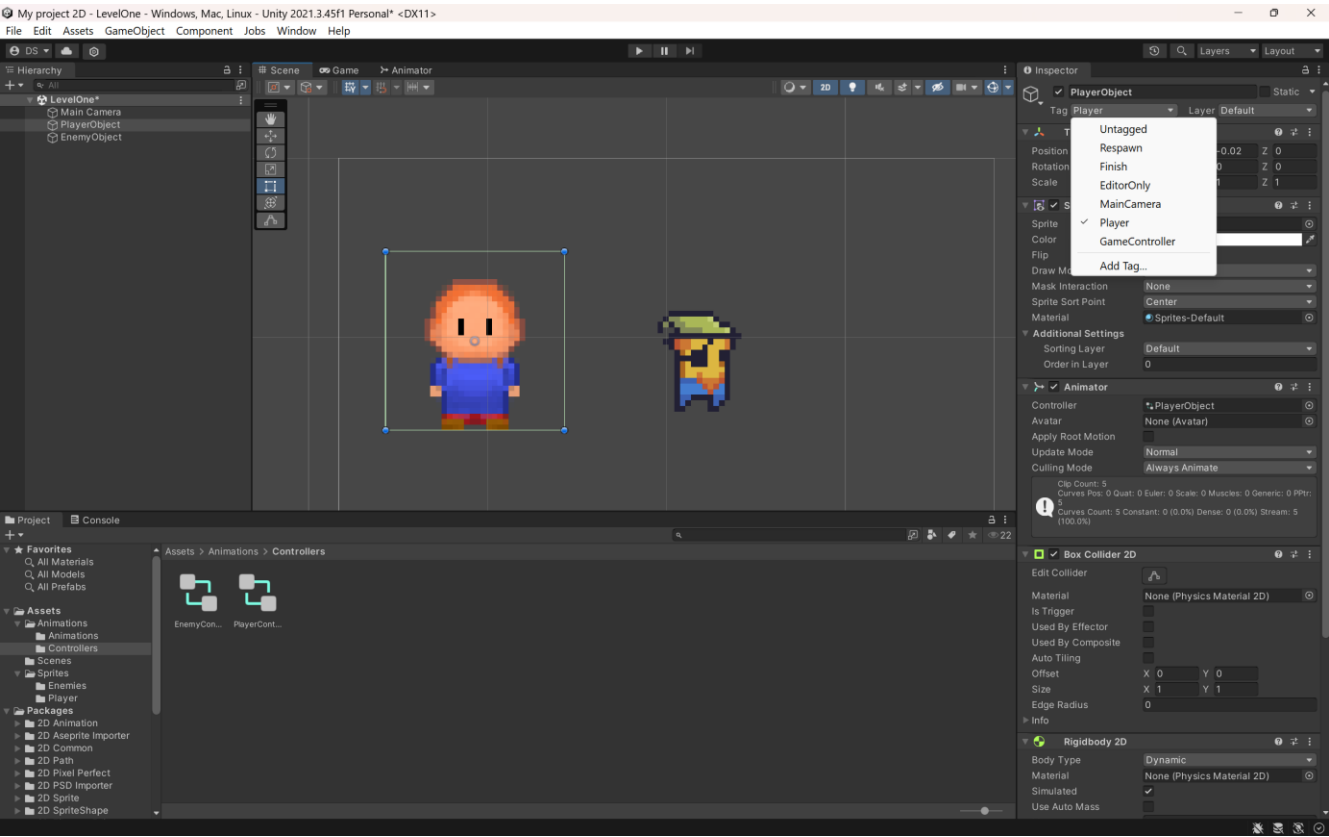
<https://drive.google.com/file/d/13w16PGNkCqFI7yzlpS9xJseq515oOLze/view?usp=sharing>

### Componente Rigidbody

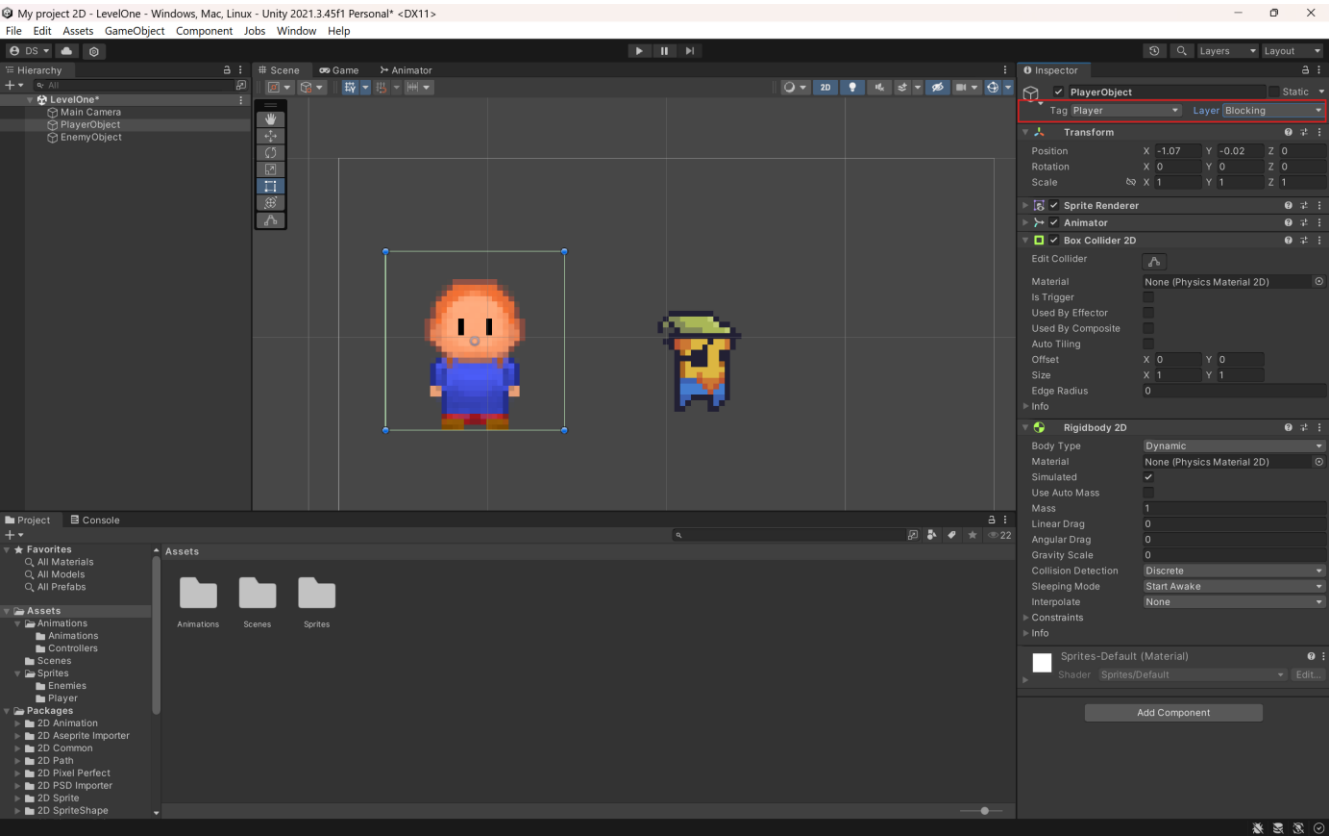




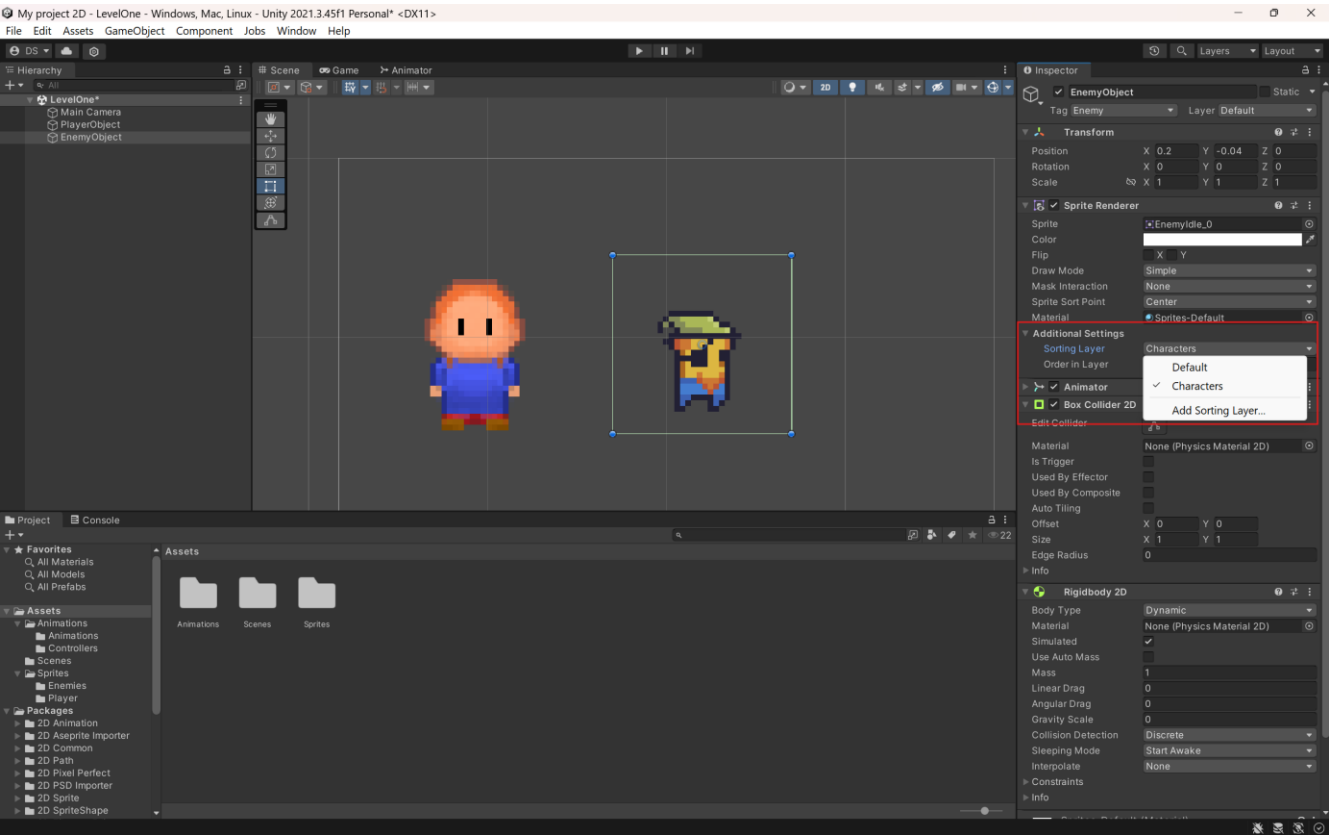
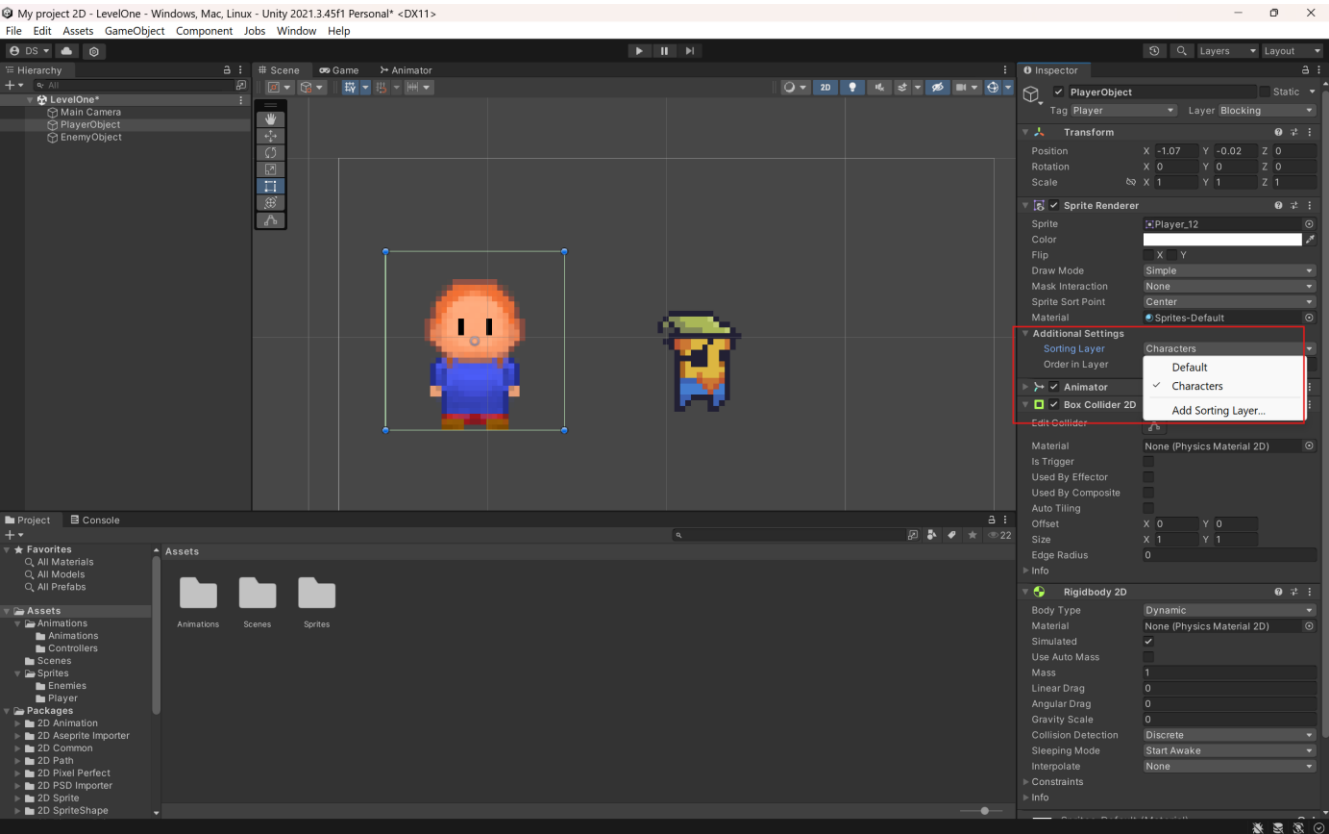
# Etiquetas & Capas



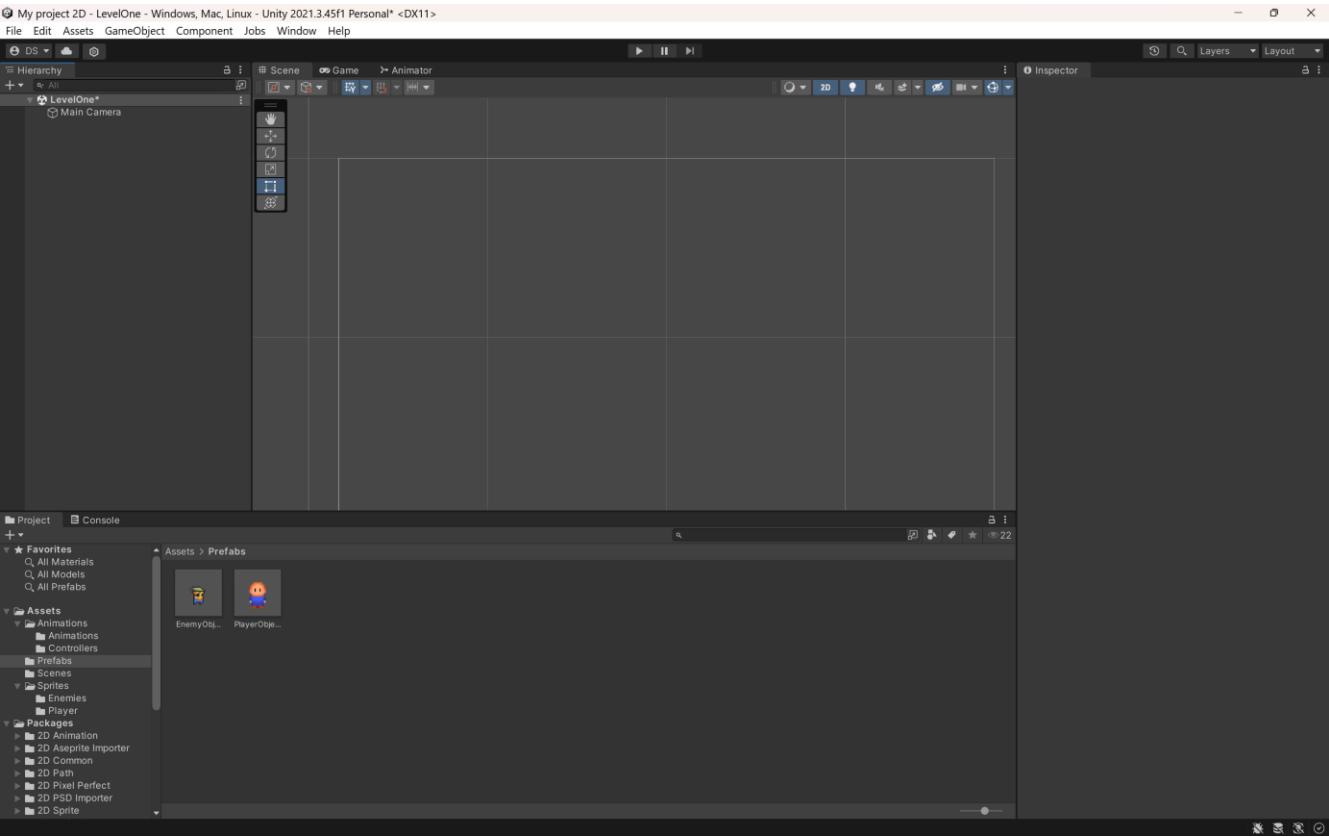
# Capas



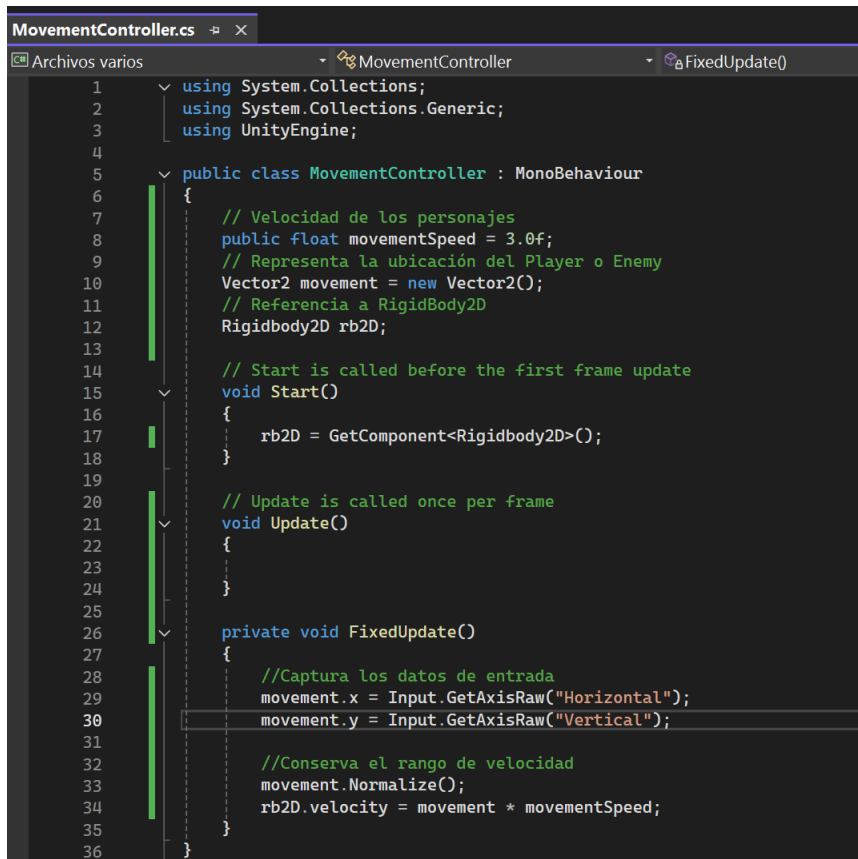
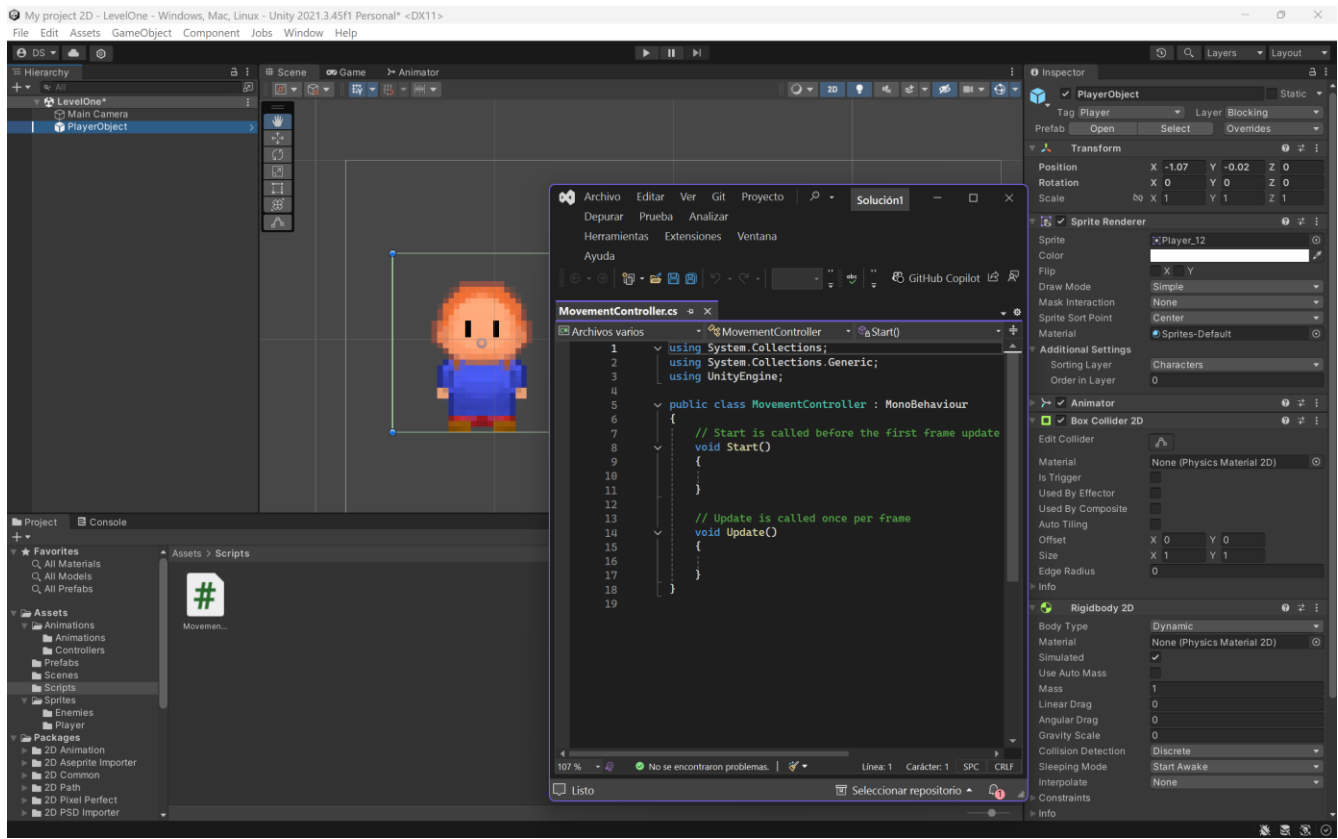
# Sorting layers



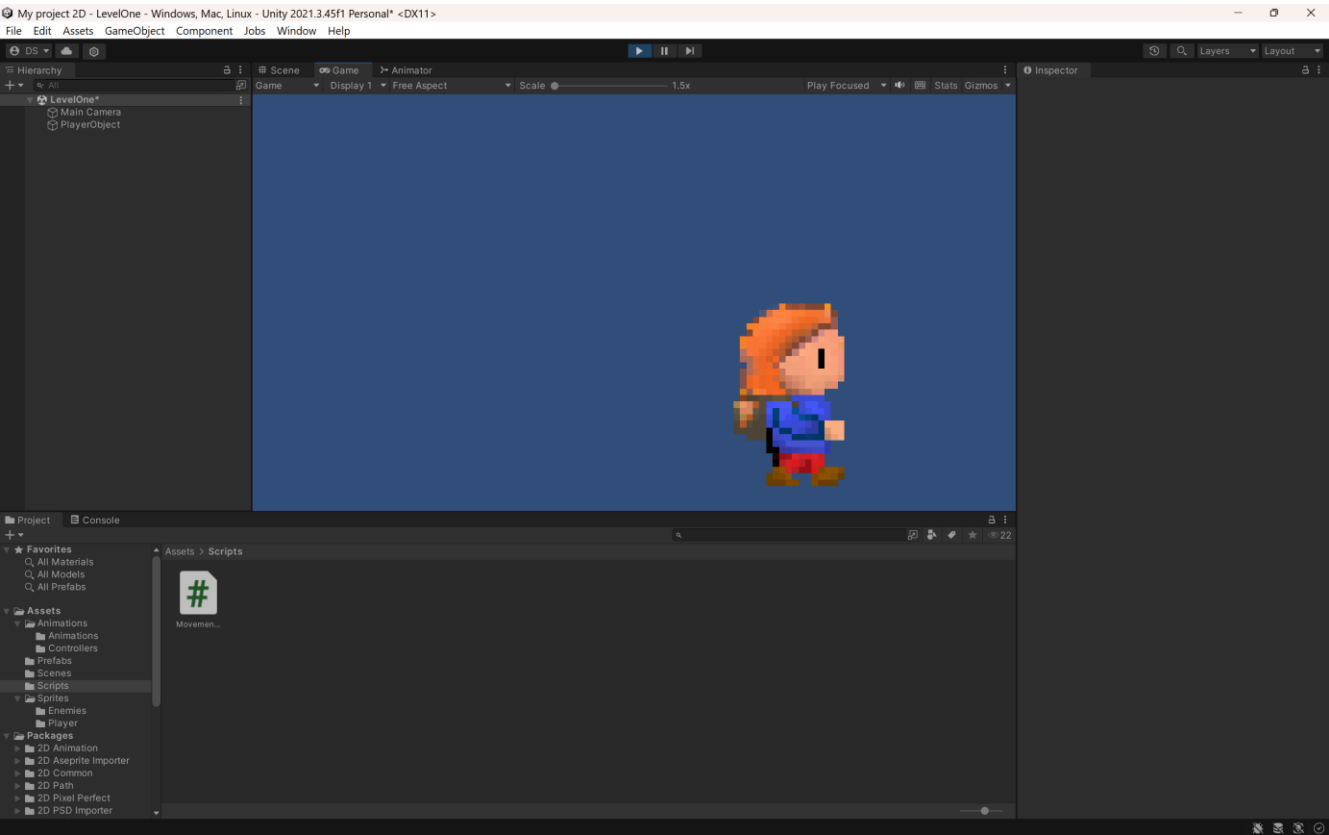
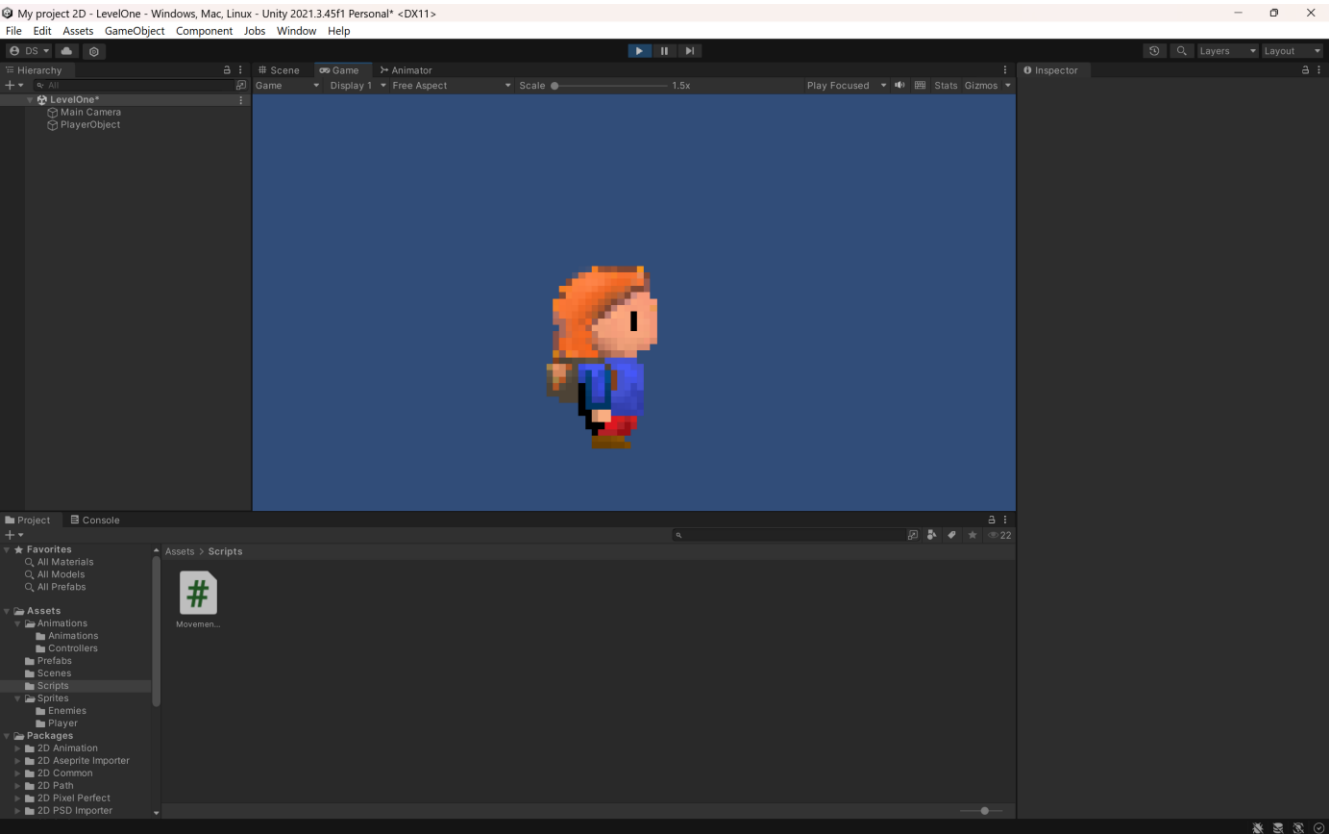
# Prefabs



## Scripts: Lógica para componentes

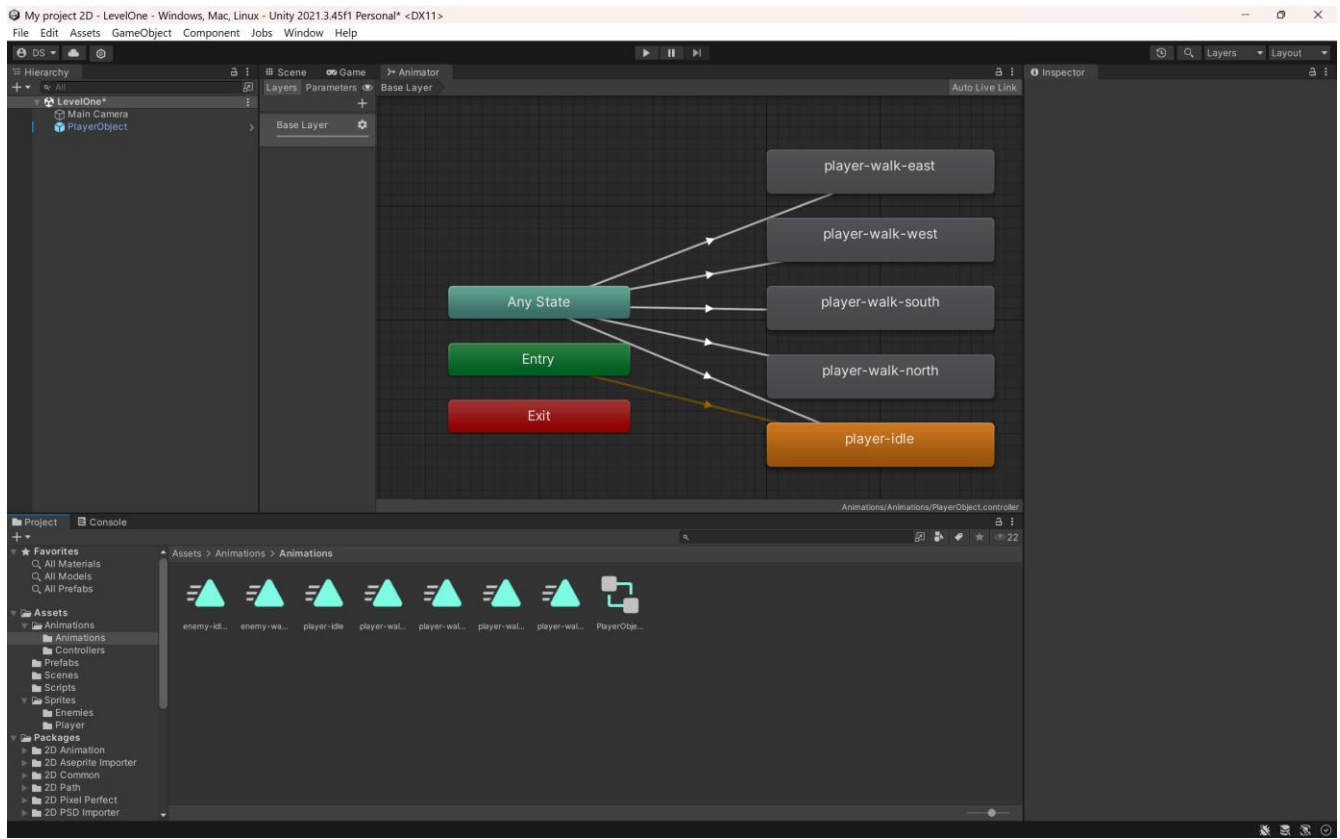


# El personaje se mueve con las teclas WASD

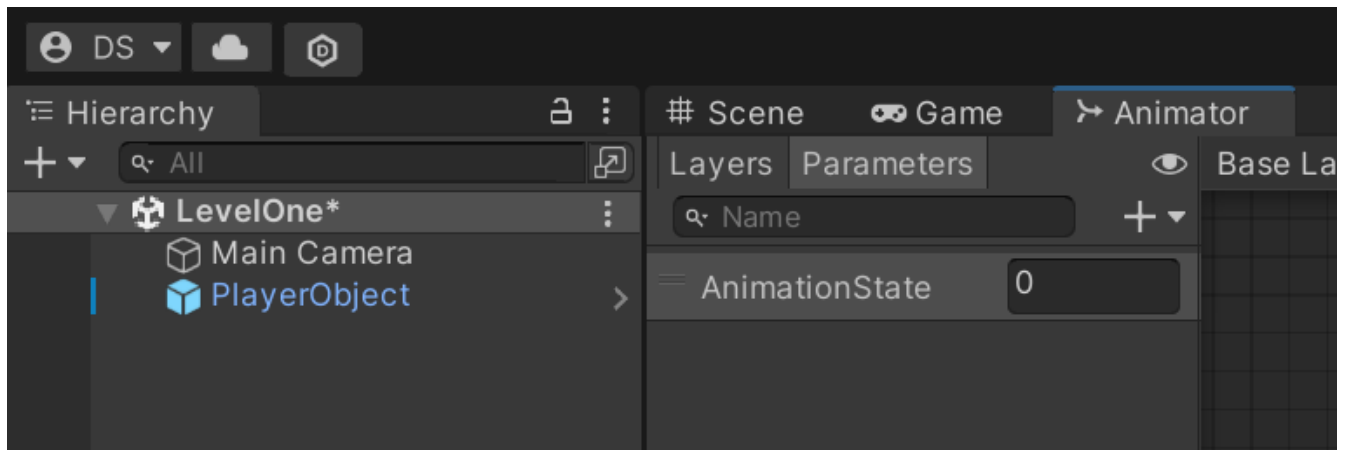




## Estados y Animaciones



## Parámetros de estado de Animación





```

using System.Collections;
using System.Collections.Generic;
using UnityEngine;

public class MovementController : MonoBehaviour
{
    // Velocidad de los personajes
    public float movementSpeed = 3.0f;
    // Representa la ubicación del Player o Enemy
    Vector2 movement = new Vector2();
    // Referencia a Rigidbody2D
    Rigidbody2D rb2D;

    Animator animator; //Referencia a componente animator
    string animationState = "AnimationState"; //Variable en Animator
    //Enumeración de los estados
    enum CharStates
    {
        walkEast = 1,
        walkSouth = 2,
        walkWest = 3,
        walkNorth = 4,
        idleSouth = 5,
    }

    // Start is called before the first frame update
    void Start()
    {
        //Establece el componente Rigidbody2D enlazado
        rb2D = GetComponent<Rigidbody2D>();
        //Establece valor de componente Animator el objeto ligado
        animator = GetComponent<Animator>();
    }

    // Update is called once per frame
    void Update()
    {
        this.UpdateState(); //Invoca al método
    }

    /* Método que define la definición a ejecutar en base al movimiento realizado por
    * el usuario.
    */
    private void UpdateState()
    {
        if (movement.x > 0) //ESTE
        {
            animator.SetInteger(animationState, (int)CharStates.walkEast);
        } else if (movement.x < 0) //OESTE
        {
            animator.SetInteger(animationState, (int)CharStates.walkWest);
        } else if (movement.y > 0) //NORTE
        {
            animator.SetInteger(animationState, (int)CharStates.walkNorth);
        } else if (movement.y < 0) //SUR
        {
            animator.SetInteger(animationState, (int)CharStates.walkSouth);
        }
    }

    private void FixedUpdate()
    {
        MoveCharacter(); //Método definido para ingresar la dirección
    }

    private void MoveCharacter()
    {
        //Captura los datos de entrada
        movement.x = Input.GetAxisRaw("Horizontal");
        movement.y = Input.GetAxisRaw("Vertical");

        //Conserva el rango de velocidad
        movement.Normalize();
        rb2D.velocity = movement * movementSpeed;
    }
}

```

