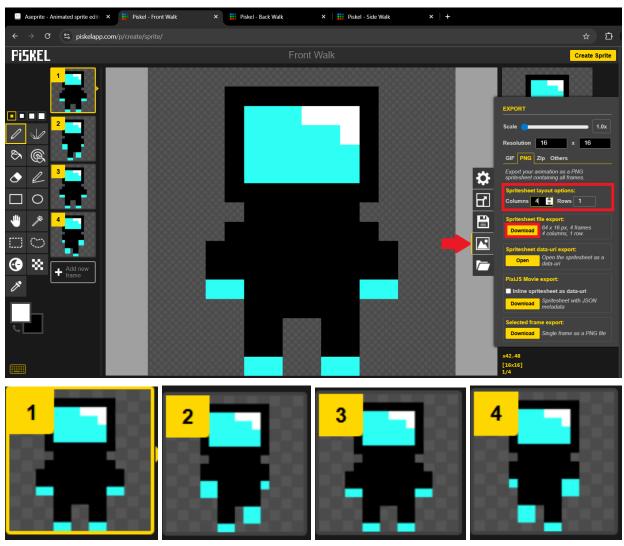
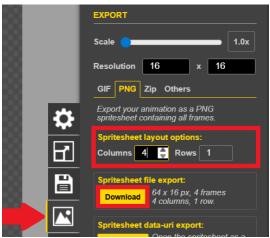
Front Walking Animation

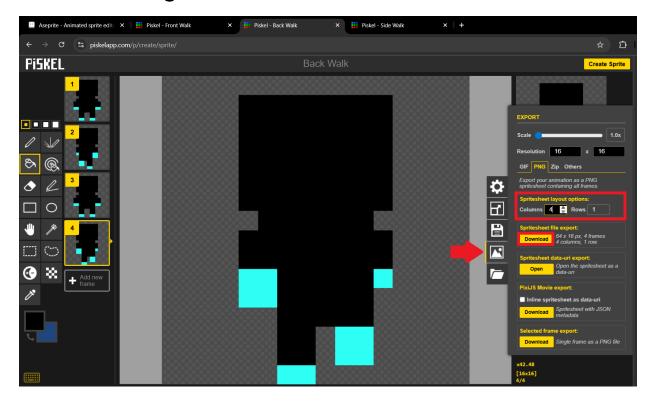


How to Export:

- 1. Select the Image Icon in the Right-Side Menu
- 2. Select PNG
- 3. Ensure that you have 1 Row
- 4. Under Spritesheet file export, click Download



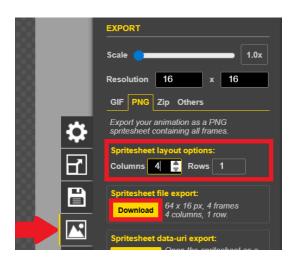
Back Walking Animation



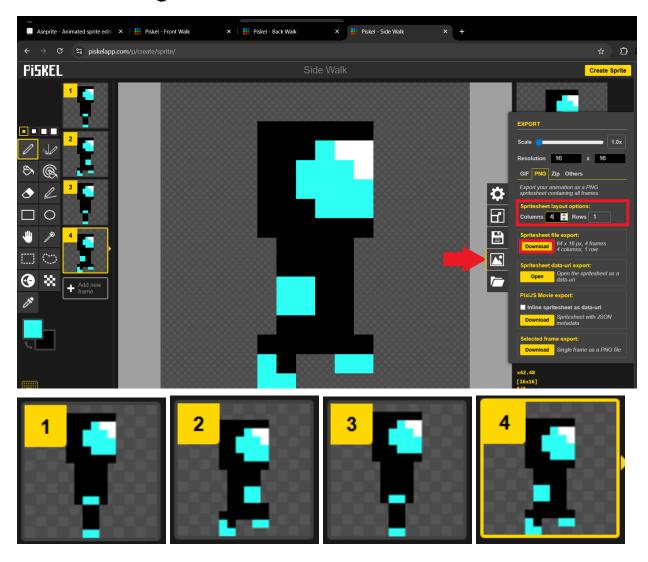
*Simply Color over the Front Walking Animation

How to Export:

- 1. Select the Image Icon in the Right-Side Menu
- 2. Select PNG
- 3. Ensure that you have 1 Row
- 4. Under Spritesheet file export, click Download

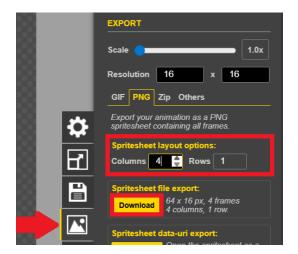


Side Walking Animation

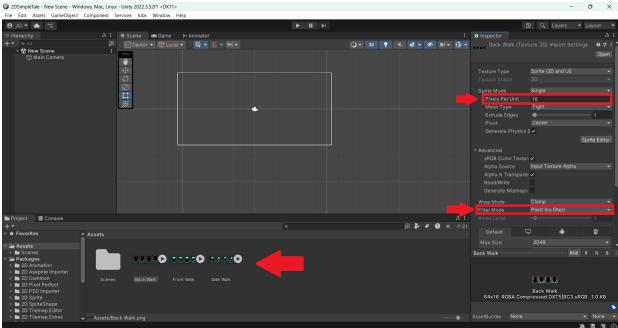


How to Export:

- 1. Select the Image Icon in the Right-Side Menu
- 2. Select PNG
- 3. Ensure that you have 1 Row
- 4. Under Spritesheet file export, click Download



Import Animations into Unity

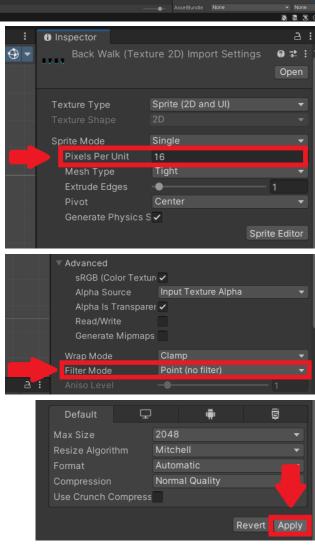


How to Import:

- 1. Right-Side inside the **Assets** section
- 2. Select Import New Asset...
- 3. Select all **Spritesheets** you made
- 4. Click Import

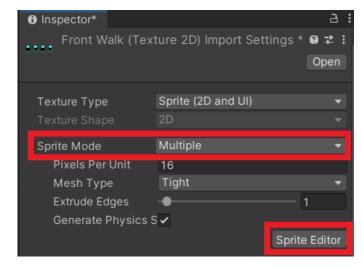
How to Remove Blur:

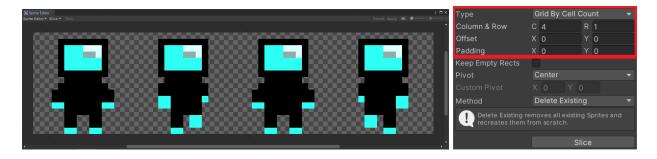
- 1. Select the Spritesheets in the Assets
- 2. In the **Inspector** window:
 - Pixels Per Unit: 16
 - Filter Mode: Point (no filter)
- 3. Select Apply



How to Slice Spritesheet:

- 1. Select the **Spritesheets** in the **Assets**
- 2. In the **Inspector** window:
 - Sprite Mode: Multiple
- 3. Select the Sprite Editor
- 4. Select Slice
 - Type: Grid By Cell Count
 - C: 4 (Columns)
 - R: 1 (Rows)
- 5. Select Apply



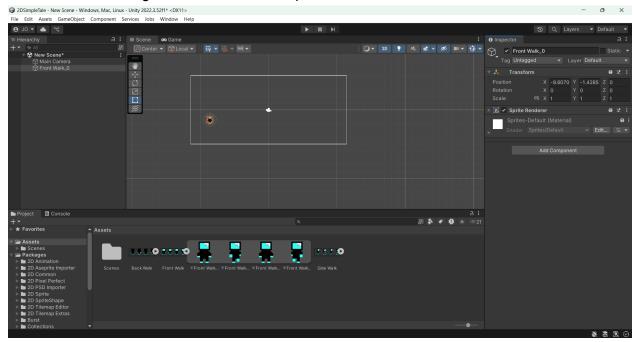


This is how your Spritesheets should look now.

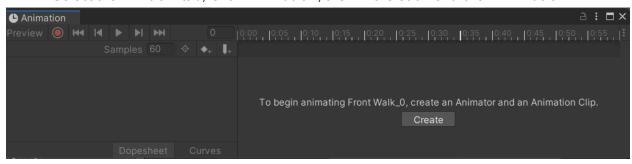


Set Up Animations

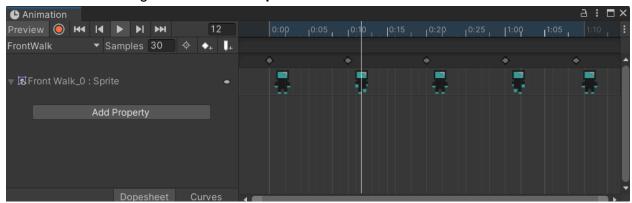
1. Click and Drag the First Front Walk Sprite into the Scene



2. Select the Window tab, Click Animation, then in the submenu click Animation

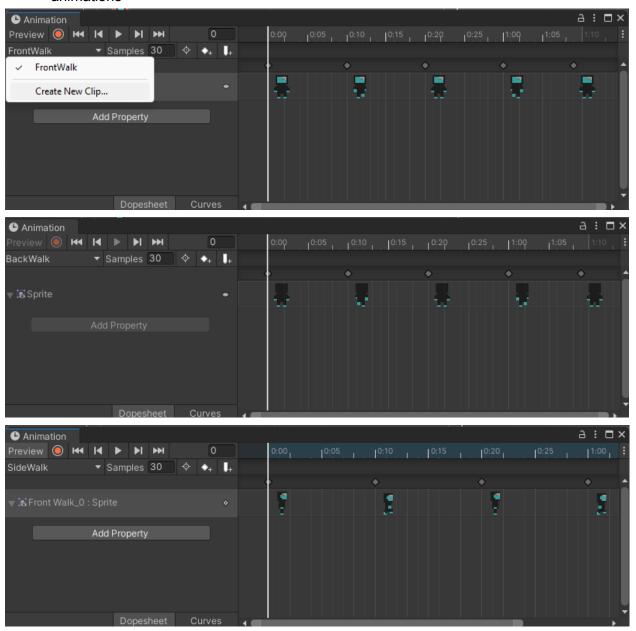


- 3. Select Create, then Name it "FrontWalk"
- 4. Click and Drag the Front Walk Sprites into the Animation Window



5. You can adjust the speed by changing the Samples value or moving the Sprites

6. Once finished, select **Create a New Clip...** and make the **BackWalk** and **SideWalk** animations

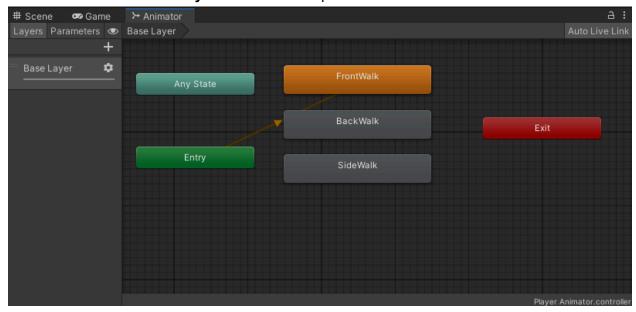


Set Up the Animator Controller

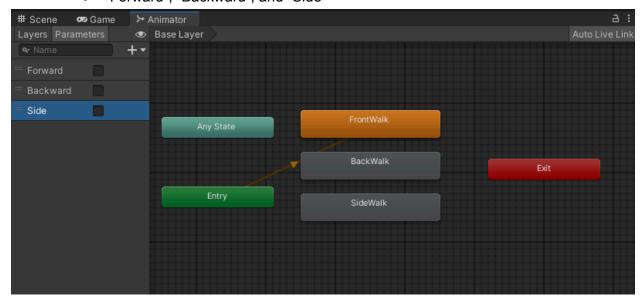
1. In the Assets, look for the Animator Controller and rename it to "Player Animator"



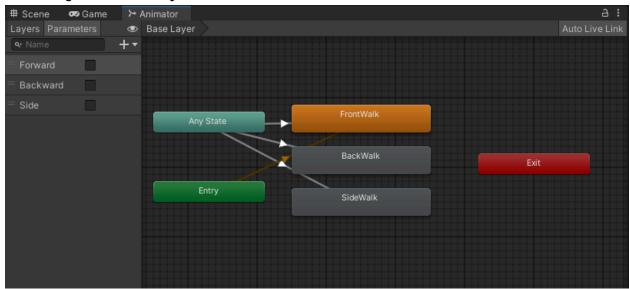
2. Double-Click the "Player Animator" to open the Animator Window.



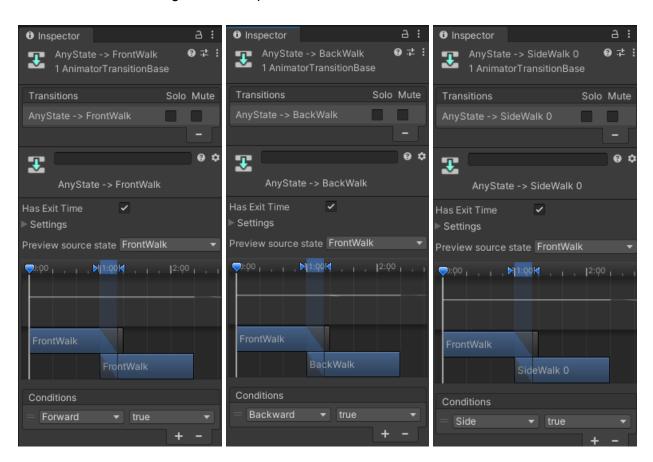
- 3. Click the Parameters Tab and create 3 Boolean Parameters and name them:
 - "Forward", "Backward", and "Side"



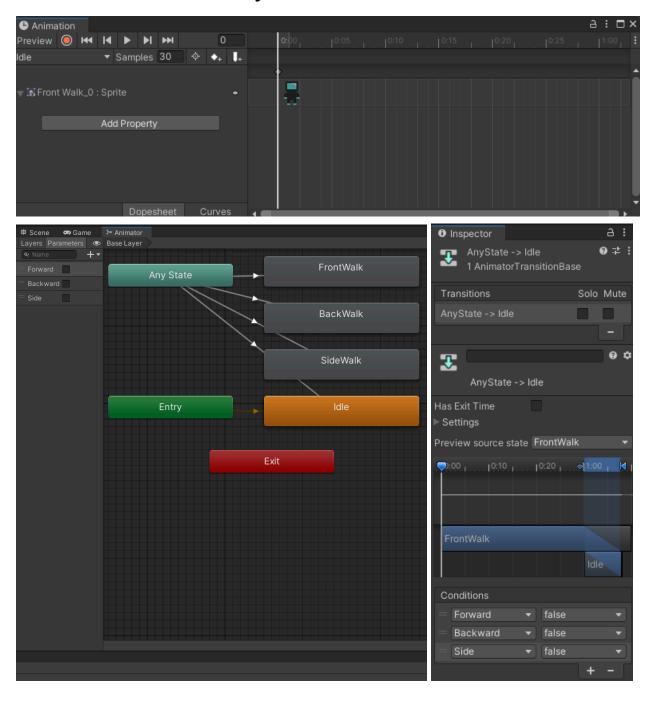
4. Right Click on "Any State" and create a Transition to each of the Animations



5. In the **Inspector Window**, check the **Has Exit Time** for all animations and set up the **Conditions** using the correct parameter



Review: Add the Player's Idle Animation



Code the Movement of the Player

Code the Movement.cs Script and Add this Script to the Player Game Object

```
public class Movement : MonoBehaviour
            // Movement Variables
           public float speed = 1f;
           Rigidbody2D rb;
           SpriteRenderer sr;
           Animator anim;
15
           // Start is called before the first frame update
16
           void Start()
               rb = GetComponent<Rigidbody2D>();
               sr = GetComponent<SpriteRenderer>();
               anim = GetComponent<Animator>();
            // Update is called once per frame
           void Update()
28
               float h = Input.GetAxis("Horizontal");
29
               float v = Input.GetAxis("Vertical");
               // Call Movement and Animation Functions
               Move(h, v);
               Animate(h, v);
            void Move(float h, float v)
               // Get Direction of Movement
               Vector2 direction = new Vector2(h, v).normalized;
               rb.MovePosition(rb.position + direction * speed * Time.deltaTime);
41
            void Animate(float h, float v)
               // Fix Left and Right Direction
               if (h != 0)
                    sr.flipX = h < 0;
               // Set Up Animation Parameters
               anim.SetBool("Horizontal", h != 0);
               anim.SetBool("Forward", v < 0);</pre>
               anim.SetBool("Backward", v > 0);
```

(Optional) Make the Camera Follow the Player

Code the CameraFollow.cs Script and Add this Script to the Camera Game Object

```
public class CameraFollow : MonoBehaviour
   public float edgeBuffer = 2f; // Distance from screen edge before camera moves
   public float camSpeed = 5f; // Speed of camera movement
   private Transform player;
   private Camera cam;
   void Start()
       player = GameObject.FindGameObjectWithTag("Player").transform;
       cam = GetComponent<Camera>();
   void LateUpdate()
       if (player == null) return;
       Vector3 playerScreenPos = cam.WorldToViewportPoint(player.position);
        // Calculate how much to move camera
       Vector3 cameraMove = Vector3.zero;
       // Check horizontal edges (0 = left, 1 = right)
       float edgeThreshold = edgeBuffer / (cam.orthographicSize * 2 * cam.aspect);
       if (playerScreenPos.x < edgeThreshold) // Too far left</pre>
           cameraMove.x = (playerScreenPos.x - edgeThreshold) * cam.orthographicSize * 2 * cam.aspect;
       else if (playerScreenPos.x > 1 - edgeThreshold) // Too far right
           cameraMove.x = (playerScreenPos.x - (1 - edgeThreshold)) * cam.orthographicSize * 2 * cam.aspect;
       float verticalThreshold = edgeBuffer / (cam.orthographicSize * 2);
       if (playerScreenPos.y < verticalThreshold) // Too far down</pre>
           cameraMove.y = (playerScreenPos.y - verticalThreshold) * cam.orthographicSize * 2;
       else if (playerScreenPos.y > 1 - verticalThreshold) // Too far up
           cameraMove.y = (playerScreenPos.y - (1 - verticalThreshold)) * cam.orthographicSize * 2;
        // Move camera smoothly
        transform.position += cameraMove * camSpeed * Time.deltaTime;
```