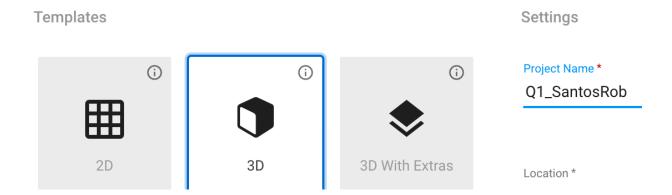
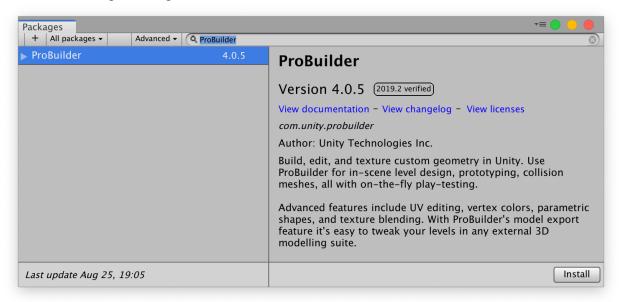
# **Quest 1 - 3D Movement - Steps**

#### 1) Create Project



#### 2) Import ProBuilder

Window->Package Manager\*



<sup>\*</sup>Use whatever version is latest

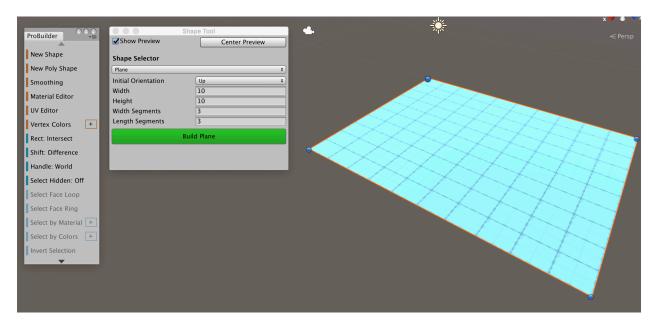
#### 3) Rename your Scene to "Q1"

We will actually be reusing this project for multiple quests. To keep the project organized, we will use a different scene for each quest.

#### 4) Set up "Work Area" (non-final level design)

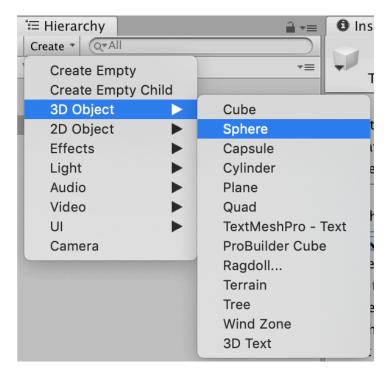
Tools->ProBuilder->ProBuilder Window

#### ProBuilder->New Shape->Plane

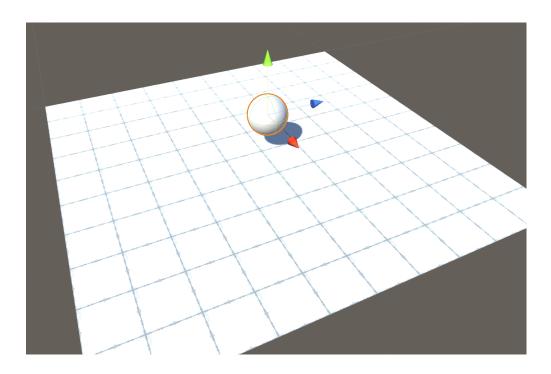


Don't forget to click "Build" to finalize your choice.

# 5) Create Player Object

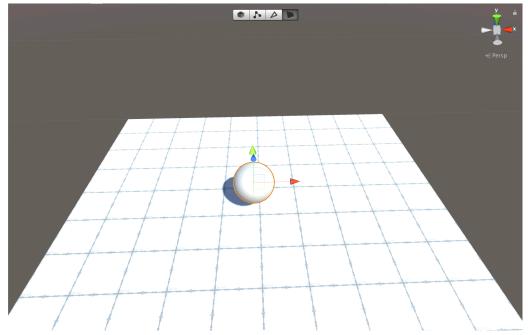


Center Player Object above Level Object

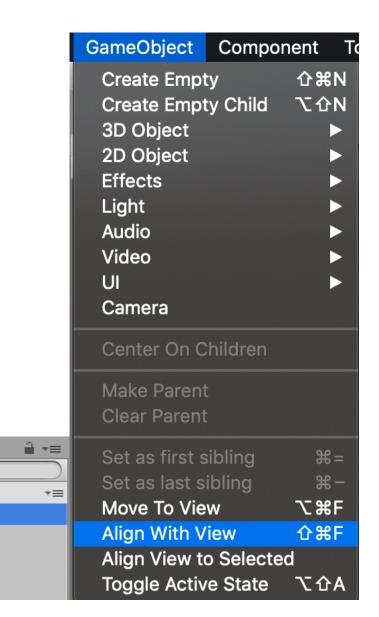


# 6) Align Camera

Hold Right-Click on the Scene view and use WASD to navigate (traditional First Person Shooter controls) and align the view to the desired gameplay angle. (Notice how the Blue X-axis points away from the camera.)



Select the "Main Camera" from the Scene Hierarchy.



Zero out the Y-rotation of the Main Camera.

Main Camera

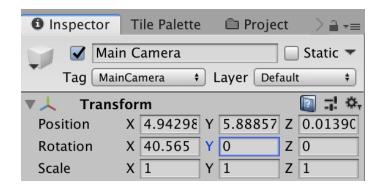
Plane Sphere

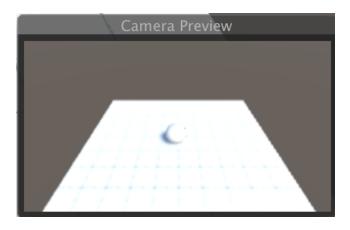
Directional Light

**≔** Hierarchy

▼ **《** Q1

Create \* QTAII



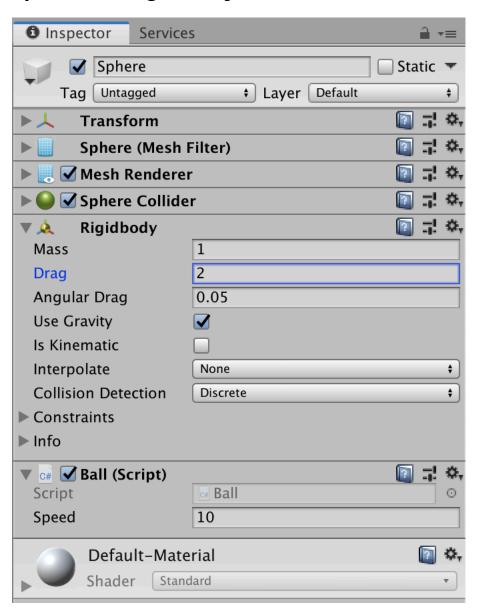


### 7) Create a player Ball C# script

Assets/Scripts/Ball.cs

```
using UnityEngine;
        public class Ball : MonoBehaviour
            Rigidbody rb;
            public float speed;
12 🔇
            void Start() {
                rb = GetComponent<Rigidbody>();
            void FixedUpdate() {
                float moveHorizontal = Input.GetAxis("Horizontal");
                float moveVertical = Input.GetAxis("Vertical");
                Vector3 movement = new Vector3(moveHorizontal, 0, moveVertical);
                if(Camera.main != null) {
                    Vector3 cameraForward =
                        Vector3.Scale(Camera.main.transform.forward, new Vector3(1, 0, 1)).normalized;
                        moveVertical * cameraForward + moveHorizontal * Camera.main.transform.right;
                rb.AddForce(movement * speed);
```

#### 8) Attach Rigidbody and Ball.cs to the Player Object



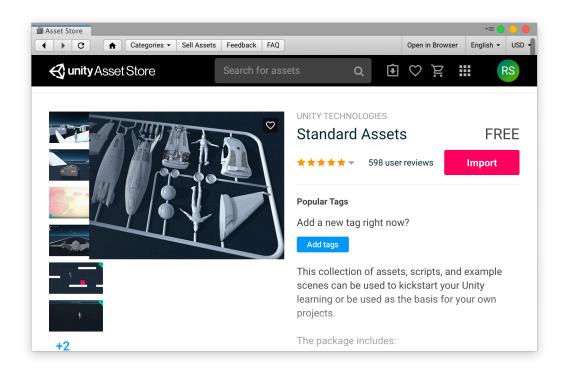
#### 9) Playtest

Arrow and WASD keys should work with the default Edit->Project Settings->Input configuration

Notice how the ball responds to input, but our gameplay possibilities are limited by our static camera perspective.

#### 10) Import Unity's StandardAssets samples

Window->Asset Store



#### 11) Disable the old Main Camera



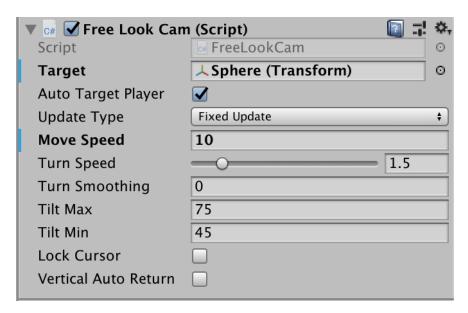
#### 12) Add the StandardAssets FreeLookCameraRig

Assets/Standard Assets/Camera/Prefabs/FreeLookCameraRig.prefab

Drag the prefab into the scene.



Update its settings to follow the player with a speed of 10.



# 13) Playtest

The new camera should follow the player and rotate on mouse movement.

#### 14) Build a Challenging Level

To be continued...