## **CODE SAMPLE**

Below is a sample of code from *The Amsterdam Bicycle Fishery*. The core mechanic in this game is a giant claw that fishes bikes out of the water, not too different from an arcade claw machine. I talk about this in more detail in the Prototyping and Iteration video. There I discuss how the core functionality of the Claw ran into major issue throughout early prototyping. However, with these two functions below, I resolved all problems associated with the Claw interactions and more.

```
//When any number of bikes are within the bounds of the claw...
private void OnTriggerStay(Collider other)
    if (other.CompareTag("Bike"))
        //...if they are locked into place...
       if (BikesLocked)
           Destroy(other.gameObject.GetComponent<Rigidbody>());
           //...parent them to the claw...
           other.gameObject.GetComponent<Transform>().parent = gameObject.transform;
           GrabbedBikes.Add(other.gameObject);
           BikeReleased = false;
//Determining when the claw is locked or unlocked and each states necessary logic
void LockBikes()
   if (ClawForwardTF.localRotation.x > 0f)
       BikesLocked = true;
    //...otherwise, they are unlocked
        BikesLocked = false;
    //When at least one bike has been locked and the claw returns to an "open" state...
    if (GrabbedBikes.Capacity > 0 && !BikesLocked && !BikeReleased)
        //...prevent bikes from being locked...
       BikeReleased = true;
        foreach (GameObject bike in GrabbedBikes)
            //...unparent them from the claw...
           bike.gameObject.GetComponent<Transform>().parent = null;
           //...and reinstate their rigidbody for normal physics...
           bike.gameObject.AddComponent<Rigidbody>();
        //...and clear the list of all bike GameObjects.
       GrabbedBikes.Clear();
```