when2meet.com/?15165911-zhl2r

+ Bring up your snowpeople!



Unity Scripting Principles

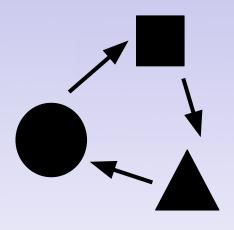
Week 3 - Day 1



What makes a game interesting?



The world needs to change!



INTERACTION

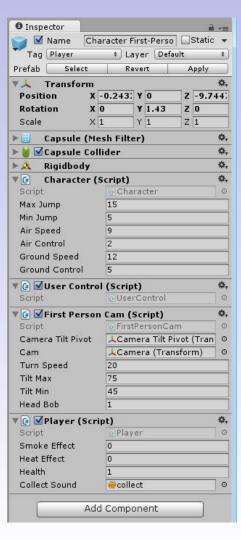


MOTION



Let's Do Some Scripting!

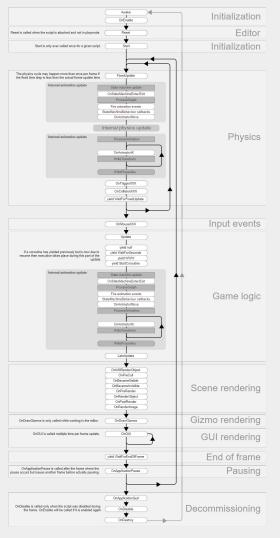




Everything is made up components, and we can write our own components!



- Built-in Unity events
 - https://docs.unity3d.com/Manual/ExecutionOrde
 r.html (40 built-in events!)
- Important: Start()
 - Called when that GameObject gets created (usually on level load or on instantiation)
- Important: Update()
 - Called every frame (usually 60 times per second)





Scripting

```
using UnityEngine;
using System.Collections;

public class MainPlayer : MonoBehaviour
{
    public string myName;

    // Use this for initialization
    void Start ()
    {
        Debug.Log("I am alive and my name is " + myName);
    }
}
```



- Just like other Components often have
 properties that are editable in the inspector, you
 can allow values in your script to be edited from
 the Inspector too.
- In C#, you must declare a variable as **public** to see it in the Inspector.
- https://docs.unity3d.com/Manual/VariablesA
 ndTheInspector.html



An example of a simple script.

Can you guess what this does

or how it works?

```
⊟using System.Collections;
 using System.Collections.Generic;
 using UnityEngine;
 ♥ Unity Script | 0 references
□public class JumpController : MonoBehaviour
     public float jumpForce = 10.0f;
     private Rigidbody rb;
   ♥rvoid Start()
         rb = GetComponent<Rigidbody>();
     // Update is called once per frame
     rvoid Update()
            (Input.GetKeyDown(KeyCode.Space))
             MyFunction();
    rvoid MyFunction()
         Debug.Log("Jump");
         rb.AddForce(Vector3.up * jumpForce);
```

What ideas do you have to make this more interesting/fun?

Feel free to explore and try things out!





From idea to (virtual) reality







DOCUMENTATION

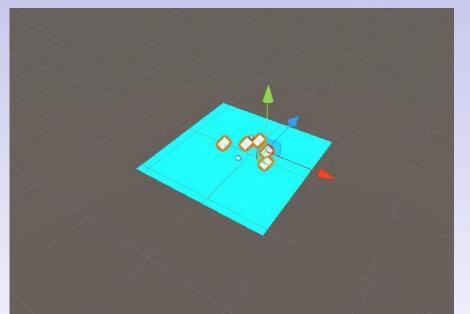


CREATION



Homework









Project Time!

https://forms.gle/qvi8q2TfqHPLoaW GA

