

Code Examples

Key Points

- The simplest way to connect to scripts is by dragging it to a serialised field in the **Inspector**.
- **Get Component** can be used to search for a type of component on another object.
- To get a reference to an object remotely, you can use a **Find** operation, but this is generally very slow so use it sparingly.
- Other methods include **static variables**, which are basically global variables.
- Statics and static-based methods, such as **Singletons**, work well, but should only be used for truly unique systems, like game managers.
- Using a static reference to get **player data** *will* work, but will cause you problems if you want to add a second player later on.

Code Examples

Get Component

```
1. public class Player : MonoBehaviour
2. {
3.     AudioSource playerAudioSource;
4.
5.     void Awake()
6.     {
7.         playerAudioSource = GetComponent<AudioSource>();
8.     }
9. }
```

Try Get Component

```
1. public class Enemy : MonoBehaviour
2. {
3.     [SerializeField] float enemyDamage = 20;
```

```
4.  
5.  private void OnTriggerEnter(Collider other)  
6.  {  
7.      if (other.tag == "Player")  
8.      {  
9.          if (other.TryGetComponent(out PlayerHealth playerHealth))  
10.         {  
11.             playerHealth.TakeDamage(enemyDamage);  
12.         }  
13.     }  
14. }  
15. }
```

Singleton Example

```
1.  public static Singleton Instance { get; private set; }  
2.  
3.  private void Awake()  
4.  {  
5.      // If there is an instance, and it's not me, delete myself.  
6.  
7.      if (Instance != null && Instance != this)  
8.      {  
9.          Destroy(this);  
10.     }  
11.  else  
12.  {  
13.      Instance = this;
```

14. }

15.}