Abstract Classes & Methods

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10:39 PM

Abstract Classes force inheritance allowing the creation of easily manageable and maintainable code. **Abstract Methods** force implementation.

Create a partial template for a class where the inherited implementation finishes the class. Cannot be added to a **gameObject.**

Cannot be instantiated.

Think of abstract classes as a partial template.

(Abstract) Enemy int Speed int Health int Gems Attack()

Moss Giant	Skeleton	Spider
int Speed	int Speed	int Speed
int Health	int Health	int Health
int Gems	int Gems	int Gems
Attack()	Attack()	Attack

```
□using System.Collections;
        using System.Collections.Generic;
        using UnityEngine;

    ♥ Unity Script | 1 reference

      public abstract class AbstractEnemy : MonoBehaviour
            public int health;
            public int speed;
            public int gems;
            1 reference
            public abstract void Attack();
11
12
            2 references
            public virtual void Die()
13
14
                Destroy(this.gameObject);
15
17

♥ Unity Script | 0 references

            public class MossGiant : AbstractEnemy
18
      Ġ١
19
                1 reference
                public override void Attack()
      ĠΪ
21
22
                     throw new System.NotImplementedException();
23
                2 references
                public override void Die()
      ġ;
25
                     // Custom particles for Moss Giant death.
27
                     base.Die();
28
29
32
34
```