GameObjects in Unity

In Normal Programming In Unity Programming public class Main: Monobehaviour(){ public class Main: Monobehaviour(){ void Start(){ public Human newHuman; void Start(){ Human newHuman = new Human(); newHuman.TakeDamage(); newHuman.TakeDamage();

Creating GameObjects in Unity

```
In Normal Programming
public class Main: Monobehaviour(){
  void Start(){
     Human newHuman = new Human();
     newHuman.TakeDamage();
```

In Unity Programming

```
public class Main: Monobehaviour(){
  public Human newHuman;
  void Start(){
     Human human1 = Instantiate(newHuman)
     newHuman.TakeDamage();
     human1.TakeDamage();
```

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Start and Update

public class Main: Monobehaviour(){

Delta Time

each frame

```
void Update(){
                                                      the object will move ~60
    transform.position.x = transform.position.x + 1; \leftarrow
                                                      units to the right in 1 second.
void Update(){
                                                                       the object will move 1 unit in
  transform.position.x = transform.position.x + (1 * Time.DeltaTime);
                                                                       1 second.
                             time in seconds between
```

Get Component

```
Camera(GameObject)
Hierarchy
                                                           -Camera(Component)
  -GameObject 1
                                                           - Main(Script Component)
  -GameObject 2
  -GameObject 3
  -GameObject 4
                                         public class Main: Monobehaviour(){
  Camera camera;
GameObject 1
  -component 1
                                            void Start(){
  -component 2
  -component 3
                                               camera = GetComponent<Camera>();
  - Script Component
```