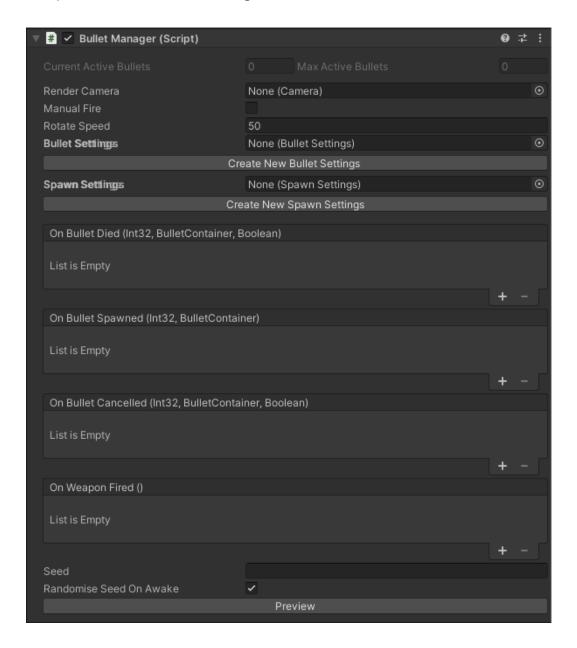
# **BulletFury**

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## **Bullet Manager**

This asset revolves around the "Bullet Manager" component. Attach it to a gameobject, and you should see the following:



There are a few things to note here:

- Draw Camera: the camera to use for rendering. If this is null, it will render as an overlay i.e. above everything else in the game.
- Manual Fire: should this bullet wait for calls to Spawn to fire bullets, or should it fire them automatically?

- Rotate Speed: should the bullet manager rotate? If so, at what speed? This does
  not rotate the object, it just applies a rotation to any calls to Spawn
- Bullet Settings: this controls the properties of the bullets more on this later.
   Pressing the button will create a new Bullet Settings file Assets/New Bullet
   Settings.asset.
- Spawn Settings: this controls how bullets are spawned, including spawn rate,
   quantity, bursts, etc.
- Events: there are several events that can be listened to, to help do various things when bullets are created/destroyed/cancelled
- **Seed**: used for randomisation. Set a seed here to ensure randomised bullet patterns use the same random seed.
- Randomise Seed On Awake: this will set a new random seed when the game starts

#### API

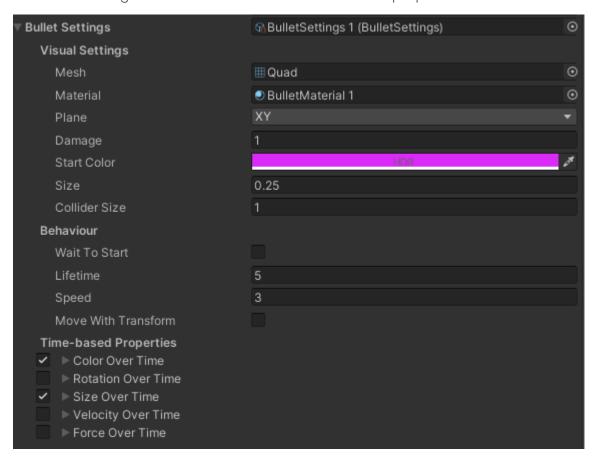
#### Spawning

```
bulletManager.Spawn(transform.position, forward:bulletManager.Plane == BulletPlane.XY ? transform.up : transform.forward);
```

To create bullets, use bulletManager. Spawn - passing through a position and forward direction. This will usually be transform.position and transform.up (in the X-Y Plane)/transform.forward (in the X-Z plane).

## **Bullet Settings**

The bullet settings asset controls the bullet visuals and properties.



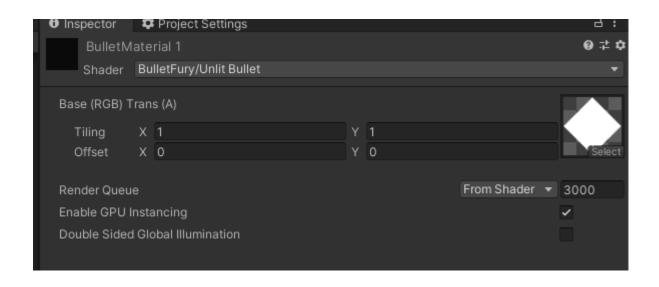
The settings themselves should be fairly self explanatory - though there are a couple of things to note.

#### Mesh

If you're using 2D bullets, use the "Quad" Mesh here, it should be available if you click the little target icon.

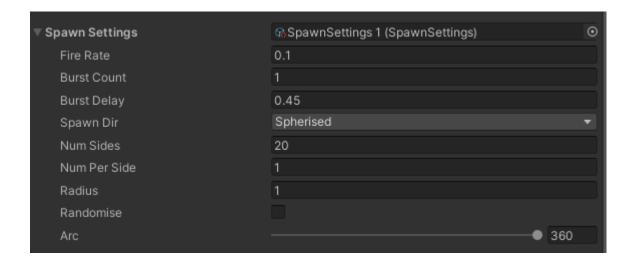
#### **Material**

You will **need** to use the "**BulletFury/Unlit Bullet**" shader for your material, and **enable GPU Instancing**. Without this, your bullets won't be visible!



## **Spawn Settings**

The spawn settings asset controls how the bullets are spawned. It can also be used elsewhere for any other types of spawning (e.g. enemies, collectibles, etc).



## Collision

Use the BulletCollider component to get collisions between objects and bullets. This system **does not interact with Unity's physics system.** This is intentional, it is a multithreaded custom physics simulation. It currently supports spheres, axis-aligned boxes and oriented boxes.

