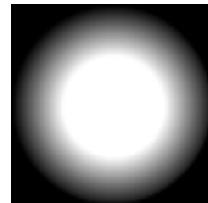


Part 13 - Shooting and Spawners

Time for our hero to defend himself in the quest to reach the prize. He needs to shoot his gun.

What will we use for a bullet? There are a few choices, but we'll go for particle.png in the data/object folder:



Define it in the config:

```
[BulletGraphic]
Texture = particle.png

[BulletObject]
Graphic = BulletGraphic
Speed = (500, 0, 0)
LifeTime = 1.0
Scale = 0.25
```

Any BulletObject that is created will be scaled down a little, sent flying off to the right, and can only exist for 1 second before auto-destroying.

What is the best way to get our hero to shoot lots of these [BulletObject]s? A spawner is the thing to use.

A spawner can be attached to an object (like our hero) and it can be told to spawn a specific type of object (like a bullet). Let's take this approach to start with. It won't be perfect, but we can always improve it later.

Create a spawner for the hero:

```
[BulletSpawner]
Object = BulletObject
WaveSize = 1
WaveDelay = 0.1
Position = (10, -7, 0)
```

Some words on the above. This spawner can shoot BulletObjects. It can shoot one at a time with 0.1 seconds between shots.

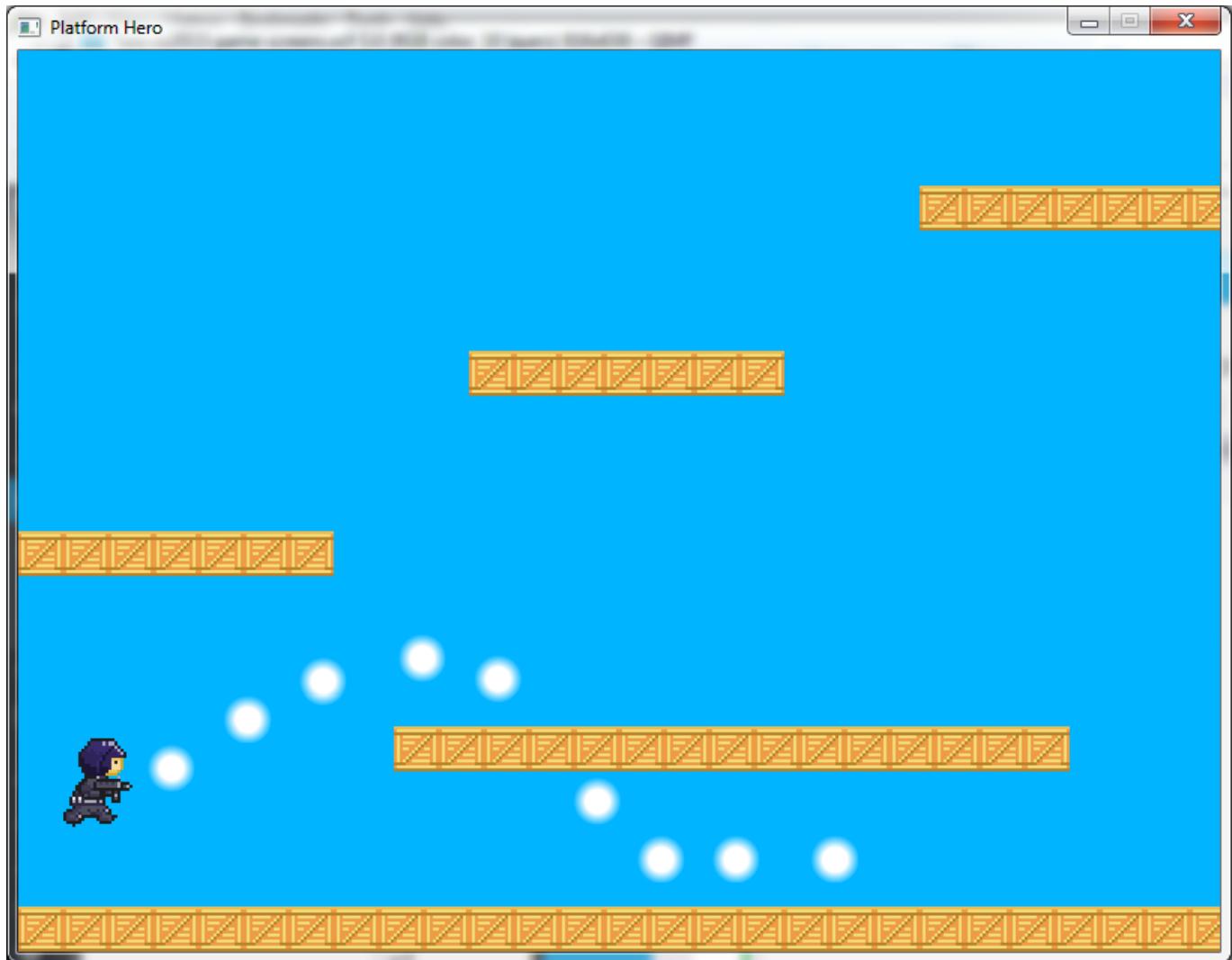
Time to attach it to the HeroObject:

```
[HeroObject]
Graphic = HeroGraphic
```

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```
Position      = (50, 400, 0)
Scale        = 2
AnimationSet = HeroAnimationSet
Body         = HeroBody
Spawner      = BulletSpawner
```

Run it and your hero will be shooting:



Great so that's working for us. Now how to stop it from shooting. The only command that is available to us for this purpose is: `orxObject_Enable()`

If we disabled our hero object, yes it would stop him from shooting, but it would also make him disappear. Not quite what is expected.

There are a number of ways to solve this situation. Let's go with a simple one.

What if the `HeroObject` had a single empty child object? And what if that child object had the spawner? Because it would be invisible, it wouldn't matter if it was turned on or off.

Define it as the hero's gun:

```
[HerosGun]
Spawner      = BulletSpawner
Position     = (10, -7, 0)
```

Remove the spawner from the hero object. Make HerosGun a child of HeroObject:

```
[HeroObject]
Graphic     = HeroGraphic
Position    = (50, 400, 0)
Scale       = 2
AnimationSet = HeroAnimationSet
Body        = HeroBody
ChildList   = HerosGun
```

When you run this, you'll notice little difference. Our hero is still firing. But now we can turn his gun off at the bottom of the Init() function.

But we need a reference to the gun in code, which we don't have yet because [HerosGun] was created automatically with HeroObject.

First declare the gun as a variable just like the hero object:

```
orxOBJECT *hero;
orxOBJECT *herosGun;
```

Then, in the Init() function, get the child reference of the gun using the hero object:

```
herosGun = (orxOBJECT*)orxObject_GetChild(hero);
```

Now that you have the reference, turn off the object at the bottom of the Init() function:

```
orxObject_Enable(herosGun, orxFALSE);
```

Compile and run.

Cool, he stopped shooting. The last thing, turn on, and off the shooting based on pressing the left control key:

```
if (orxInput_IsActive("Shoot"))
{
    orxObject_Enable(herosGun, orxTRUE);
} else {
    orxObject_Enable(herosGun, orxFALSE);
}
```

Compile and run.

Hmmm... his bullets don't go left when the hero faces left. Change the spawner:

```
[BulletSpawner]
Object      = BulletObject
```

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```
WaveSize      = 1
WaveDelay     = 0.1
Position      = (0, 0, 0)
ObjectSpeed   = (500, 0, 0)
UseRelativeSpeed = true
```

The ObjectSpeed property overrides the Speed property in the BulletObject (no it's not really needed anymore) and the UseRelativeSpeed means the ObjectSpeed will be applied relative to the direction of the spawner.

Compile and Run.

Fantastic! Our hero can now run, jump and shoot.

Next: [Part 14 - FX](#).

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