## Part 19 - Survival

Keeping alive is key in a platformer. The monsters need to be a threat to our hero. If a monster touches our hero, he should explode in a shower of bits. That's game over.

For the explosion for our hero, let's copy the +.png file from the orx/tutorial/data/object folder in the Orx project and copy it to data\texture as plus.png:



Might seem an odd choice, but if 50 of these spawned over the hero in various stages of rotation and flew in several directions like sparks, it will be fairly effective. Start with the object and the graphic:

```
[SparkGraphic]
Texture = plus.png
Pivot = center

[SparkObject]
Graphic = SparkGraphic
Speed = (-350, -350, 0) ~ (350, -850, 0)
Color = (255, 0, 0) ~ (255, 255, 255)
Rotation = 0 ~ 90
LifeTime = 2 ~ 4
Scale = 0.5 ~ 1.0
Body = SparkBody
```

Each SparkObject will fly up and out in a random direction, random colours, sizes, and a random lifetime. 50 at a time should look good. Next, make a body for it so that it will fall back to earth:

```
[SparkBody]
Dynamic = true
PartList = SparkBodyPart

[SparkBodyPart]
Type = box
Solid = false
```

A pretty simple body and part - affected by gravity but not set to collide with anything.



Note that giving each particle a body is an easy way to make objects fall to the ground, but it is also heavy and in-efficient. While we won't do it in this guide, an FX can also be a cheap way to make object fall down. See this tutorial if you would like to learn how: Creating Electrical Sparks

Finally, we'll make an empty hero exploder with a spawner that spawns out 50 SparkObject's:

Before we can deal with the collision between monster and hero, we need to ensure the flags of the hero knows about monsters:

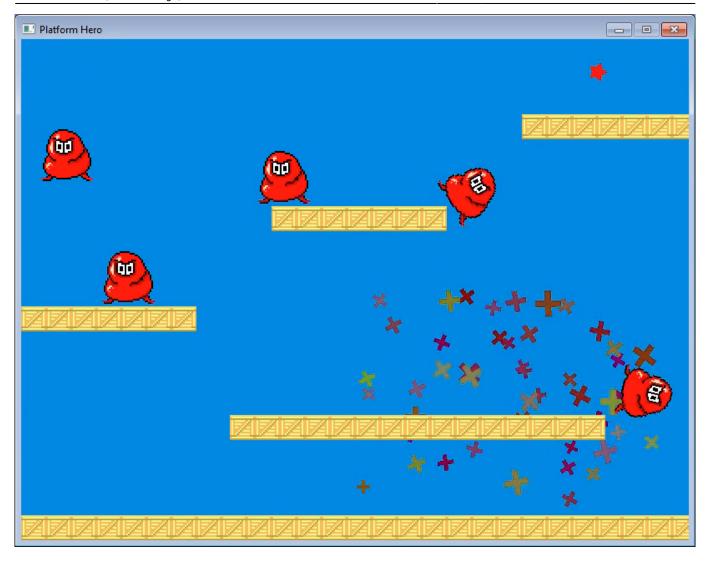
Now to handle it in code, by adding the following at the bottom of the PhysicsEventHandler function:

```
if (orxString_Compare(recipientObjectName, "HeroObject") == 0 &&
    orxString_Compare(senderObjectName, "MonsterObject") == 0
){
    CreateExplosionAtObject(pstRecipientObject, "HeroExploder");
    orxObject_SetLifeTime(pstSenderObject, 0);
    orxObject_Enable(pstRecipientObject, orxFALSE);
}

if (orxString_Compare(senderObjectName, "HeroObject") == 0 &&
    orxString_Compare(recipientObjectName, "MonsterObject") == 0
){
    CreateExplosionAtObject(pstSenderObject, "HeroExploder");
    orxObject_SetLifeTime(pstRecipientObject, 0);
    orxObject_Enable(pstSenderObject, orxFALSE);
}
```

So if the hero and the monster touch, destroy the monster, disable the hero and place a HeroExploder on top of him.

Compile and run it:



So there you go. The major elements of the game are now complete. Well done!

In our next and last chapter, we'll do a few housekeeping changes to flesh the game out.

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