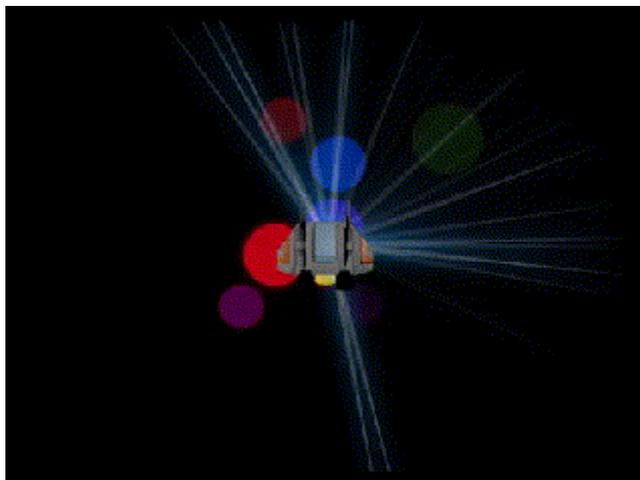
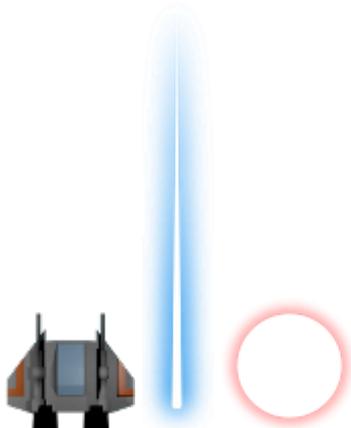


# Futurama Appearance Effect

This tutorial will teach you how to create a warp appearance effect like at the start of the Futurama title sequence. The effect will look something like this:



In order to make this, you will need three simple things: an object like a ship, a blue spike, and a flat ball:



Begin by creating the alien ship on screen:

```
[Alien]  
Graphic = AlienGraphic  
Position = (0, 0, 0.5)  
ChildList = WarpAppearance  
  
[AlienGraphic]  
Texture = ship.png  
Pivot = center
```

Notice the WarpAppearance object added to the child list. This is where the appearance affects will be added. Whenever an instance of an alien ship is created, a nice appearance effect will show with it.

Define WarpAppearance with:

```
[WarpAppearance]
AngularVelocity = 100
ChildList      = WarpSpineMaker
LifeTime       = 4
```

WarpAppearance is just an empty object that is turning. This object will only live for 4 seconds, then it will die. Attached to this (as a child) is WarpSpineMaker.

Create WarpSpineMaker with:

```
[WarpSpineMaker]
Spawner = WarpSpineSpawner
Position = (0, -3, 0)

[WarpSpineSpawner]
Object      = WarpSpine
ActiveObject = 40
WaveSize    = 5
WaveDelay   = 0.1
CleanOnDelete = true
UseSelfAsParent = true
```

WarpSpineMaker has a spawner defined (WarpSpineSpawner). WarpSpineSpawner will spawn loads of WarpSpine objects, which are the blue spike texture as above.

```
[WarpSpine]
Graphic      = @
Texture      = warp-spine.png
Pivot        = (17, 202, 0)
AngularVelocity = -200 ~ 200
FXList       = FadeInOutFX
LifeTime     = 1.0
```

This is the interesting part. Each WarpSpine object that is spawned by WarpSpineSpawner has a low centered pivot point and a random spin value. Each only lives for a second, but this gives a “filtered light” effect. To smooth the appearance in and out of each object, a FadeInOutFX is defined:

```
[FadeInOutFX]
SlotList = FadeInOutFXSlot
KeepInCache = true
Loop     = false

[FadeInOutFXSlot]
Type      = alpha
Curve     = sine
StartTime = 0.0
EndTime   = 4.0
StartValue = 0.0
```

```
EndValue      = 1.0  
Absolute      = true
```

Add a small piece of object creation code to your project's `init()` function:

```
orxObject_CreateFromConfig("Alien");
```

Compile and run. The ship will appear with a dazzling array of blue spines surrounding it.

For a minor enhancement, we'll also spawn some randomly coloured balls to act as a type of lens flare. Change the `WarpAppearance` to include a child called `BubbleCreator`:

```
[WarpAppearance]  
AngularVelocity = 100  
ChildList       = WarpSpineMaker # BubbleCreator  
LifeTime       = 4
```

And it is defined as:

```
[BubbleCreator]  
Spawner = BubbleSpawner  
LifeTime = 3  
  
[BubbleSpawner]  
Object      = Bubble  
ActiveObject = 24  
WaveSize    = 2  
WaveDelay   = 0.1  
UseRelativeSpeed = true
```

`BubbleCreator` only lives for 3 seconds in total and has a spawner called: `BubbleSpawner`. It in turn spawns objects called `Bubble`:

```
[Bubble]  
Graphic = @  
Texture = glow-bubble.png  
LifeTime = 1  
Speed    = (-250, -250, 0) ~ (250, 250, 0);  
Scale    = 0.5 ~ 1.0  
Pivot    = center  
HSV      = (0.0, 1.0, 1.0) ~ (1.0, 1.0, 1.0)  
FXList   = FadeAwayFX
```

These shoot away in random directions, have a random colour and size. They also fade nicely away with `FadeAwayFX`, which we'll define here:

```
[FadeAwayFX]  
SlotList = FadeAwayFXSlot  
KeepInCache = true  
Loop     = false
```

[FadeAwayFXSlot]

Type = alpha  
Curve = linear  
StartTime = 0.0  
EndTime = 0.5  
StartValue = 1.0  
EndValue = 0.0  
Period = 0.5  
Absolute = true

Run that and the alien will appear in a wash of blue spikey light and coloured flares.

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