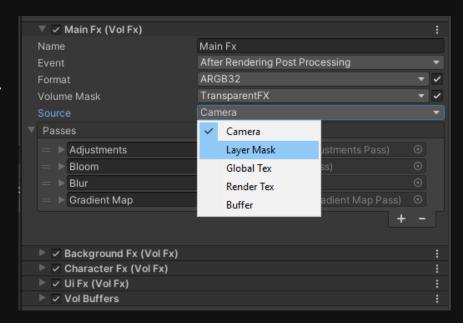


Quick Guide

VolFx is customizable selective post-processing vis buffer system that allows to build a custom scene processing architexture for visual effects creation

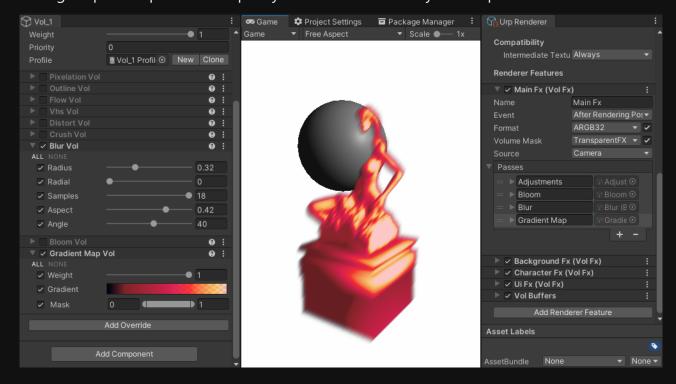
* Post effects from a PostAsrt project can be loaded saperatively and work as custom passes : OldMovie ImageFlow GradientMap Pixelation ScreenOutline Vhs.

It consists of modules (RenderFeatures) that can process different sources, by LayerMask, GlobalTexture or Camera content



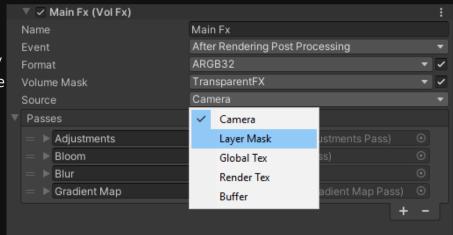
It can be used to control the scene and the display of groups of objects on it or to process textures for effects(like light maps, pattern animations, height etc)

To create a processing module you need to add **VolFxRenderFeature** to **UrpRenderer**, configure pass sequence and specify on which source thay will be processed.

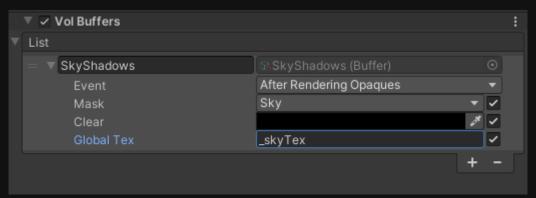


It can be a group of objects rendered by LayerMask, GlobalTexture or Camera content.

Then add **Passes** that will be applied to the source, in the order in which they are arranged in the queue and use it via **Volume**

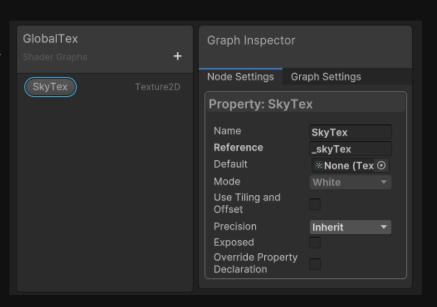


For some effects it may be useful to draw objects into a buffer in order to later apply its texture through a shader. (It can be light, fog of war or just a mask for some effect)



* Objects are collected by LayerMask and rendered into a separate texture

Texture can be processed with realtime and used throug a shader



* VolumeMask must be specified in order to select what settings to use for processing, example of post processing Light Texture



VolFx also allows you to create CustomPasses

* Example-template of a simple **GrayscalePass** can be found in ProjectSamples and used as a template, basically you need a shader override pass and control them via **VolumeSettings**



To create a CustomPass, it must be inherited from **VolFxProc.Pass** and then it will appear in the list to be added.

```
[ShaderName("Hidden/VolFx/Grayscale")] // shader name for pass material
public class GrayscalePass : VolFxProc.Pass
{
   public override bool Validate(Material mat)
       // use stack from feature settings, feature use custom VolumeStack with its own
LayerMask
       var settings = Stack.GetComponent<GrayscaleVol>();
       // return false if we don't want to execute pass, standart check
       if (settings.IsActive() == false)
           return false;
       // setup material before drawing
       mat.SetFloat("_Weight", settings.m_Weight.value);
       return true;
   }
}
```

By default material is created automatically using path and **ShaderNameAttribute** and is updated every time before processing is called.

But you can also overiider low-level to access additional functionality.

In this way you can expand the engine and create dynamic effects controlled via VolumeProfile and scenes that have their own processing pipelines.