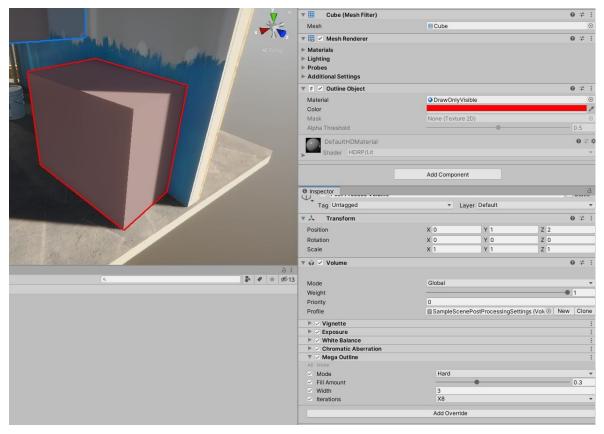
HDRP Outline

1 SETUP GUIDE

- 1. Add HDRP Outline to HDRP Post Processing Orders List
 - a. Edit -> Project Settings -> HDRP Default Settings
 - b. Scroll down
 - c. Click to "add" icon in After Post Process list
 - d. Select Knife.HDRPOutline.Core.HDRPOutline
- 2. Add HDRP Outline to HDRP Volume
 - a. Select your Volume
 - b. Click "Add Override"
 - c. Select Knife -> HDRP Outline
- 3. Create Outline material for our object
 - a. In project window click RMB
 - b. Select Create -> Material
 - c. Change shader of material to Knife/Knife-HDRPOutline_Unlit
- 4. Add OutlineObject component to object that you need
 - a. Select object with Renderer
 - b. Go to top menu and select Component -> Knife -> Outline Object
 - c. Assign new outline material to "Material" property in Outline

Object Inspector You should see outline of that object.



2 DOCUMENTATION

```
public class HDRPOutline : CustomPostProcessVolumeComponent,
IPostProcessComponent - outline volume component.
public OutlineModeParameter mode - Outline render mode. public
FloatParameter width - width of outline (Hard only).
public ClampedFloatParameter fillAmount - fill amount of outline. Fills center of object's outline.
public TextureParameter patternTexture - pattern texture of outline.
public ClampedFloatParameter patternFillAmount - fill amount of outline pattern. public
Vector2Parameter patternTile - pattern tile. public OutlineIterationsParameter
iterations - iterations count of outline (Hard only). public FloatParameter blurRadius
- blur radius of outline (Soft only).
public IntParameter blurIterations - blur iterations count of outline (Soft only). public
FloatParameter overglow - outline overglow value after calculation (Soft only). public
BoolParameter softnessEnabled - apply softness for alpha before outline calculating (Soft only).
public ClampedFloatParameter softness - Softness of outline after calculation (Soft only).
public enum OutlineMode - Outline render
modes.
OutlineMode.Disabled - disables outline render.
```

```
OutlineMode.Hard - hard outline.
OutlineMode.Soft - soft outline.
public enum OutlineIterations - hard outline iterations count.
OutlineIterations.X4 - 4 iterations.
OutlineIterations.X8 - 8 iterations.
OutlineIterations.X16 - 16 iterations.
OutlineIterations.X32 - 32 iterations.
public class OutlineObject : MonoBehaviour - component that register object in
outline render pass.
public Material Material - outline object material (recommended to use unlit materials).
public Color Color – per renderer color of outline object.
private float fresnelScale - per renderer scale of fresnel multiplier (material must have Fresnel
toggle enabled).
private float fresnelPower - per renderer power of fresnel multiplier (material must have Fresnel
toggle enabled). public Texture2D Mask - per renderer mask of outline object (material must have
BaseColor parameter value Alpha or Color). public float AlphaThreshold - per renderer mask
alpha threshold value (cutout).
Shader "Knife/Knife-HDRPOutline Unlit" - outline render shader BaseColor

defines base color mode.

       None – color only
       Alpha – get alpha from mask
       Color – get color and alpha from mask
UV Channel – defines which UV channel shader must use (UV0 – UV4)
ZTest – depth comparison function
https://docs.unity3d.com/ScriptReference/Rendering.CompareFunction.html
ZWrite – enables or disables depth buffer writing.
```

Any questions and issues: knifeent@gmail.com