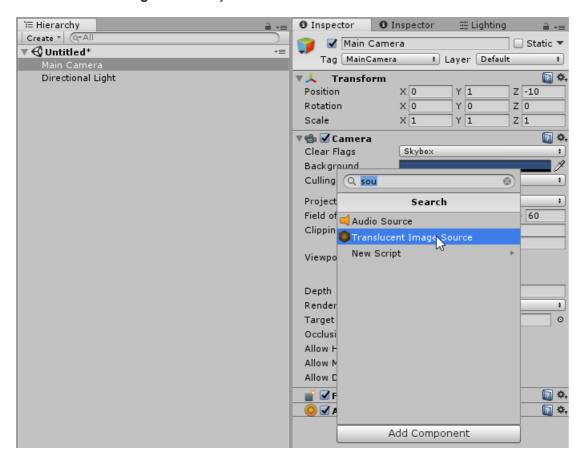
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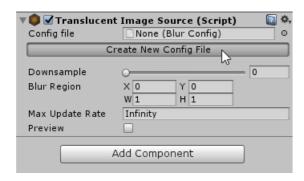
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Getting Started

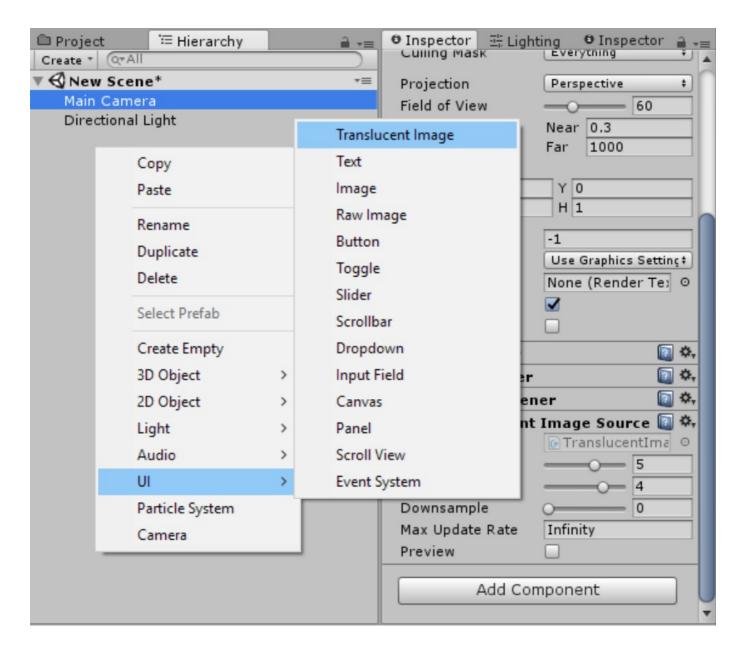
- 1. If you are using URP, follow the setup steps first.
- 2. Add Translucent Image Source to your main camera.



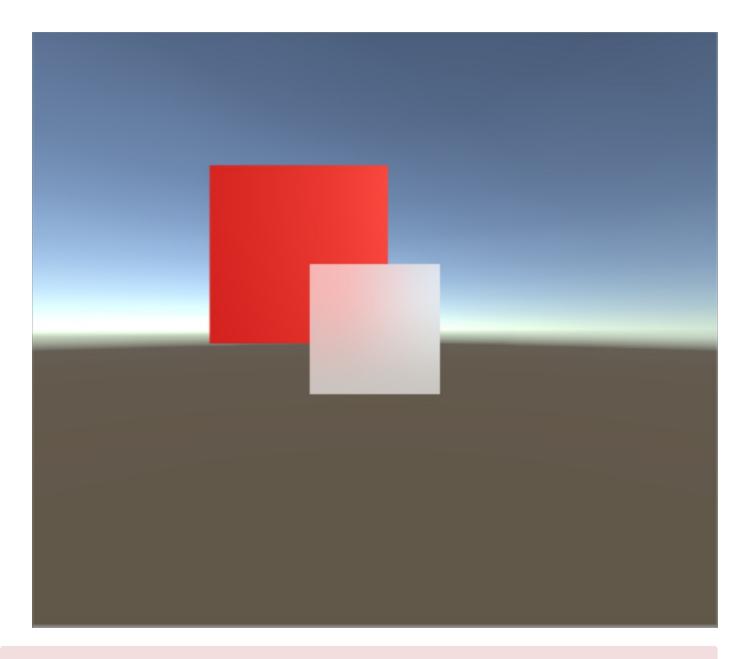
3. Create a Blur Config asset (or assign an existing one).



4. Create a *UI > Translucent Image*, as you would with normal Image.



5. That's it!



▲ WARNING

By default, Translucent Image will use a default Material. To make sure your Translucent Image are not affected by asset update, create your own Material. See Customize section for more info.

6 NOTE

Sometime the effect does not shown up immediately. If that happen, just switch to play mode. The effect will continue to show even when exit play mode.

Customize

Translucent Image requires 2 components in a scene: 1 or more Source that control the blur amount, and multiple Translucent Image that replace the builtin Image component.

Translucent Image Source

Translucent Image Source generate the blurred background. Its let you controls how much blur is present, the quality of blur and thus the performance trade-off.

Blur Amount

There are too two methods of controlling the amount of blur, Simple and Advanced:

Simple:

• Strength. Using this single property, you can (kinda) smoothly change the blur amount at runtime.

Advanced:

- **Size**: Increase blur amount without affecting performance, but will look bad if set too high or too low. Reduce flickering when increased. Allow smoothly interpolating between blur amount, but can't go down to 0.
- **Iteration**: Increase blur quality and blurriness. Affect performance slightly. Animating this will create noncontinuous change in blur amount.

Performance:

These allow you to fine-tune the performance-quality trade-off. This is more useful for less capable mobile devices or high resolution tablet.

- . Max Depth: Increasing this property will:
 - o Improves performance
 - o Increases blur amount if Iteration is high.
 - · Cause flickering when the background moving.
- Downsample: Decrease the resolution before processing to increase performance. Side effects includes increased blurriness and flickering.
- **Blur Region**: Limit the blur effect to a region of the screen. If your UI does not span the entire screen, it is a good idea to use this to increase performance and reduce power usage.

6 TIP

You can visualize and visually edit this by turning on preview. The number here work the same as the Camera component Viewport. It easier to weld if you change x and y before w and h.

• Max Update Rate: How many times the screen is blurred per second. Use this to improve performance and decrease power usage.

6 TIP

Setting this to 0 will pause the effect completely. This can reduce power usage/ prevent overheat when you don't need a dynamically updating background, for example, in a pause menu.

• **Preview**: Show the effect in full-screen without creating a Translucent Image. It also show the Blur Region as a resizable white rectangle.

Translucent Image

- Source Image, Color, Raycast Target, Image Type: same as built-in Image.
- **Material**: Multiple Translucent Images using the same material share some settings. They will batch dynamically into a single draw call.

▲ WARNING

- Material used here must use the shader UI/TranslucentImage.
- · You should create your own Material instead of the default to avoid changes to look after asset updates.
- **Source**: a Translucent Image Source component. Will be automatically set to the first one found, so you should make sure there one in your scene before creating any Translucent Image. You can change this to select which camera will provide the background.
- **Sprite Blending**: Mix between Source Image property and the blurred background. This should be where you would use the alpha channel of the Color property in a normal Image component.

Shared settings

The following settings are shared across Translucent Images using the same material:

- Vibrancy: Colorful-ness of the background. 0 mean monochrome, and a negative value will invert the color.
- Brightness: Brighten or darken the background.
- Flatten: Reduce the background contrast. Useful when you can't predict the color of the background, but want to keep the content on top of it legible.

Controls Translucent Image from script

You can control all of the settings available in the inspector in C# through the exposed properties. See: TranslucentImage and TranslucentImageSource

The blur settings can't be accessed directly from the TranslucentlmageSource class. They're are stored in a ScriptableObject. An easy way to access these settings is to create a public/serialized field. You can then assign the setting asset to it in the inspector:

```
public ScalableBlurConfig blurSettings;
```

Alternatively, if you have a reference to a TranslucentlmageSource component, you can access the blur settings by casting it to a ScalableBlurConfig

```
void Start(){
  var theSource = FindObjectOfType<TranslucentImageSource>();
  var blurSettings = (ScalableBlurConfig) theSource.BlurConfig; // No other blur algorithms are available at the moment, so the cast will
always success

blurSettings.Strength = 42;
}
```

Universal Render Pipeline

Requirements

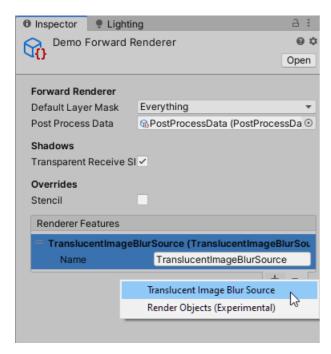
Only non-preview, non-beta version of URP and Unity will be supported.

The files required to support URP can be imported from the unitypackage at: TranslucentImage/UniversalRP support. They're not included by default, as that would produce errors in projects without URP.

Some demo scene does not work in URP. You can find demo scenes dedicated for URP under Translucentlmage/Demo/UniversalRP, after you import the support package.

Setup

- 1. Import the package at TranslucentImage/UniversalRP support.
- 2. Find your Forward Renderer Assets, and add TranslucentlmageBlurSource to its list of Renderer Features:

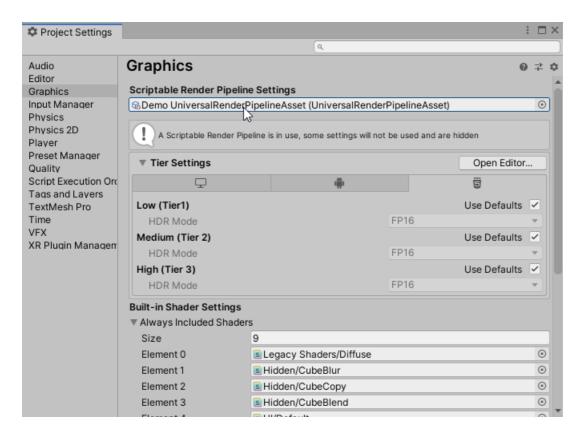




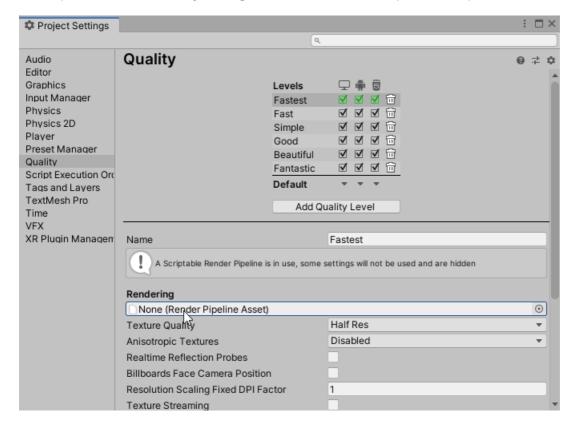
You may have multiple Forward Renderer Assets. In which case you have to add the Renderer Feature to all of them.

Finding the Forward Renderer Assets

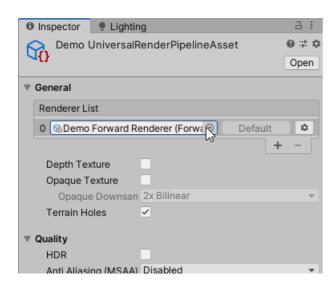
 You can find the Forward Renderer asset(s) you're using by finding the Render Pipeline Settings asset in Graphic Settings:



2. You may also have more **Quality Setting**. Be sure to check all Quality Levels that you use:



3. Double click the field under the cursor in the above images will take you to the **Render Pipeline Settings asset**, where you can find your **Forward Renderer asset(s)** in the list of **Renderer**:



Blurring other UI elements

To achieve the best possible performance, Translucent Image does not support blurring UI elements in arbitrary order. However, UIs in a Canvas can blur UIs in different Canvas, by using additional Cameras.



The best way to learn is by example! Check out the included demo scenes that contain examples of blurring Uls:

- For Builtin Render Pipeline: Demo/ Scenes/Demo.unity
- For Universal Render Pipeline: Demo/UniversalRP/UniversalRP Demo Ul Blur.unity

The idea

To understand the setup, it's useful to understand how Translucent Image works.

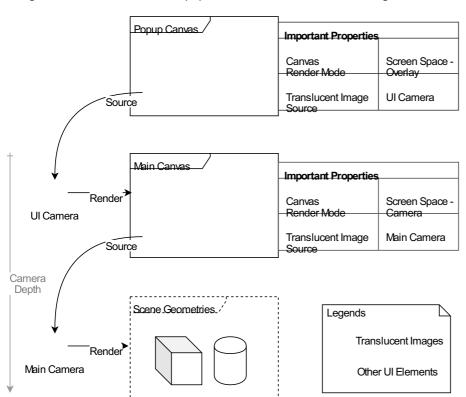
Translucent Images **do not blur** things by themselves. Instead, the Translucent Image Source component blurs the **entire** "screen" at once, then shares the result with multiple Translucent Images. This massively **reduces** the number of pixels that have to be blurred. It's one reason why Translucent Image is so fast.

The Translucent Image Source component "see" and blur what the Camera they attached to render. If the Source "sees" the Translucent Images, these Images will appear in their own background, causing a feedback loop and making the Images fade to opaque. It's important to make sure Translucent Images are **not** "seen" by their own Source.

So, to blur Uls, you need at least 2 Canvases: a lower one containing the Uls to be blurred, an upper one for the Translucent Images. Then, set the Camera with the Translucent Image Source to only render the lower Canvas.

An example setup

A common use of UI blurring is for pop-up panels. The following setup lets the Translucent Images in the Main Canvas blur the scene geometries. Those in the Popup Canvas will blur both the scene geometries, as well as UIs in the Main Canvas.



An example setup. What a Camera render can be controlled using its Culling Mask property

For reference, these are the important objects and settings:

Performance implication

You can stack as many cameras and canvases as you like. However, with each extra Translucent Image Source you use, the GPU will have to do more work. A workaround is to disable the Source that is not the top-most. In fact, both Windows 10 and macOS do this:

Windows 10 only use blur on the top-most UI

World Space Ul

World Space UI face the same problem as blurring other UIs - if we want to batch blurring operations to achieve high performance, we cannot have Translucent Images interleaved between what they want to blur. If you simply put Translucent Images in world space, they will continuously blur themselves, causing an "overexposed" effect.

To work around this, use a separated Camera for Translucent Images, an example of this setup available at:

Le Tai Asset/TranlucentImage/Demo/World Space UI. Particularly, the World UI Camera should:

- Have higher Depth than your Main Camera.
- · Have Culling Mask set to UI layer only.
- Have Depth only clear Flags.
- Other properties should match your Main Camera setting.
- Be in the same position as your Main Camera setting it as children with position and rotation of (0,0,0) is the simplest way.

Also, your Main Camera should have Culling Mask set to exclude UI layer.

Now, your Translucent Images should appear on top of scene geometry all the time, even if they are further away. While this is not ideal, it satisfies many use case, for example, world-space HUD, and allow for far better performance.

Frequently Asked Questions

Will this asset works well on my device?

The asset should run on any device. Performance-wise, it depends on your project's existing GPU consumption, but here some general rule of thumb:

- PC/Mac/Console: Should run well on almost everything except very old integrated GPU.
- Android: There're too many of them with too much difference in capability. The only way to know for sure is to test the demo
 on your target devices. On a Samsung Galaxy S7 Edge, the demo run at 60FPS with any setting.
- IOS:
 - o Iphone: Apple A8 and later should hit 60FPS. A7 can hit 30FPS.
 - o lpad: Because of the higher pixel count, you'll need to use the resolution scale features to hit 60fps on A9 and below.

The blur does not work. UI in the demo scene just all white.

This usually due to one of the following:

- Sometime the effect only so up after switching to Play mode.
- If you're using URP, you have to do some setup, as detailed in the Universal Render Pipeline section first.
- Sometime Unity's import process break some random things. Try delete the whole folder and re-import the asset.

Can I smoothly animate the blur level?

The way the blur algorithm work make it difficult to smoothly animate the blur amount. The Strength property allows for mostly smooth change of blurriness, but there will still be some abrupt jump that is noticeable when interpolating slowly.

If you just need to fade in and out, you can use the alpha component of the Color property. You can also use Canvas Group as with normal Images.

Have another question?

Contact me

Support

If you need assistance regarding the asset or have a feature request, feel free to contact me by the form below or through my support email.

Support request Search Articles

Namespace LeTai.Asset.TranslucentImage
Classes
BlurConfig
Extensions

ScalableBlurConfig

ScalableBlur

ShaderId

Translucentlmage

Dynamic blur-behind UI element

TranslucentlmageSource

Common source of blur for Translucent Images.

Interfaces

IBlurAlgorithm

Enums

BlurAlgorithmType

Enum BlurAlgorithmType

Namespace: LeTai.Asset.TranslucentImage Assembly: LeTai.TranslucentImage.dll

Syntax

public enum BlurAlgorithmType

Fields

NAME	DESCRIPTION
ScalableBlur	

Class BlurConfig

Inheritance

System.Object

UnityEngine.Object

UnityEngine.ScriptableObject

BlurConfig

ScalableBlurConfig

Inherited Members

UnityEngine.ScriptableObject.SetDirty()

UnityEngine.ScriptableObject.CreateInstance(System.String)

UnityEngine.ScriptableObject.CreateInstance(System.Type)

UnityEngine.ScriptableObject.CreateInstance<T>()

UnityEngine.Object.GetInstanceID()

UnityEngine.Object.GetHashCode()

UnityEngine.Object.Equals(System.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Instantiate<T>(T)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Destroy(UnityEngine.Object, System.Single)

UnityEngine.Object.Destroy(UnityEngine.Object)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object, System.Boolean)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object)

UnityEngine.Object.FindObjectsOfType(System.Type)

UnityEngine.Object.DontDestroyOnLoad(UnityEngine.Object)

UnityEngine.Object.DestroyObject(UnityEngine.Object, System.Single)

UnityEngine.Object.DestroyObject(UnityEngine.Object)

UnityEngine.Object.FindSceneObjectsOfType(System.Type)

UnityEngine.Object.FindObjectsOfTypeIncludingAssets(System.Type)

UnityEngine.Object.FindObjectsOfType<T>()

UnityEngine.Object.FindObjectOfType<T>()

UnityEngine.Object.FindObjectsOfTypeAll(System.Type)

UnityEngine.Object.FindObjectOfType(System.Type)

UnityEngine.Object.ToString()

UnityEngine.Object.name

UnityEngine.Object.hideFlags

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LeTai.Asset.TranslucentImage

Assembly: LeTai.TranslucentImage.dll

Syntax

public class BlurConfig : ScriptableObject

Class Extensions

Inheritance

System.Object

Extensions

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: LeTai.Asset.TranslucentImage Assembly: LeTai.TranslucentImage.dll

Syntax

public static class Extensions

Methods

BlitFullscreenTriangle(CommandBuffer, RenderTargetIdentifier, RenderTargetIdentifier, Material, Int32)

Declaration

public static void BlitFullscreenTriangle(this CommandBuffer cmd, RenderTargetIdentifier source, RenderTargetIdentifier destination, Material material, int pass)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.Rendering.CommandBuffer	cmd	
UnityEngine.Rendering.RenderTargetIdentifier	source	
UnityEngine.Rendering.RenderTargetIdentifier	destination	
UnityEngine.Material	material	
System.Int32	pass	

ToMinMaxVector(Rect)

Declaration

public static Vector4 ToMinMaxVector(this Rect self)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.Rect	self	

Returns

TYPE	DESCRIPTION
UnityEngine.Vector4	

ToVector4(Rect)

Declaration

public static Vector4 ToVector4(this Rect self)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.Rect	self	

Returns

ТҮРЕ	DESCRIPTION
UnityEngine.Vector4	

Interface IBlurAlgorithm

Namespace: LeTai.Asset.TranslucentImage Assembly: LeTai.TranslucentImage.dll

Syntax

public interface IBlurAlgorithm

Methods

Blur(RenderTexture, Rect, ref RenderTexture)

Declaration

void Blur(RenderTexture source, Rect sourceCropRegion, ref RenderTexture blurredTexture)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.RenderTexture	source	
UnityEngine.Rect	sourceCropRegion	
UnityEngine.RenderTexture	blurredTexture	

Init(BlurConfig)

Declaration

void Init(BlurConfig config)

Parameters

TYPE	NAME	DESCRIPTION
BlurConfig	config	

Class ScalableBlur

Inheritance

System.Object

ScalableBlur

Implements

IBlurAlgorithm

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: LeTai.Asset.TranslucentImage Assembly: LeTai.TranslucentImage.dll

Syntax

public class ScalableBlur : IBlurAlgorithm

Methods

Blur(RenderTexture, Rect, ref RenderTexture)

Declaration

public void Blur(RenderTexture source, Rect sourceCropRegion, ref RenderTexture blurredTexture)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.RenderTexture	source	
UnityEngine.Rect	sourceCropRegion	
UnityEngine.RenderTexture	blurredTexture	

BlurAtDepth(Int32, ref RenderTexture, ref RenderTexture)

Declaration

protected virtual void BlurAtDepth(int depth, ref RenderTexture baseTexture, ref RenderTexture target)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	depth	
UnityEngine.RenderTexture	baseTexture	
UnityEngine.RenderTexture	target	

ConfigMaterial(Single, Vector4)

Declaration

protected void ConfigMaterial(float radius, Vector4 cropRegion)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Single	radius	
UnityEngine.Vector4	cropRegion	

Init(BlurConfig)

Declaration

public void Init(BlurConfig config)

Parameters

TYPE	NAME	DESCRIPTION
BlurConfig	config	

Implements

IBlurAlgorithm

Class ScalableBlurConfig

Inheritance

System.Object

UnityEngine.Object

UnityEngine.ScriptableObject

BlurConfig

ScalableBlurConfig

Inherited Members

UnityEngine.ScriptableObject.SetDirty()

UnityEngine.ScriptableObject.CreateInstance(System.String)

UnityEngine.ScriptableObject.CreateInstance(System.Type)

UnityEngine.ScriptableObject.CreateInstance<T>()

UnityEngine.Object.GetInstanceID()

UnityEngine.Object.GetHashCode()

UnityEngine.Object.Equals(System.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Instantiate<T>(T)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Destroy(UnityEngine.Object, System.Single)

UnityEngine.Object.Destroy(UnityEngine.Object)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object, System.Boolean)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object)

UnityEngine.Object.FindObjectsOfType(System.Type)

UnityEngine.Object.DontDestroyOnLoad(UnityEngine.Object)

UnityEngine.Object.DestroyObject(UnityEngine.Object, System.Single)

UnityEngine.Object.DestroyObject(UnityEngine.Object)

UnityEngine.Object.FindSceneObjectsOfType(System.Type)

Unity Engine. Object. Find Objects Of Type Including Assets (System. Type)

UnityEngine.Object.FindObjectsOfType<T>()

UnityEngine.Object.FindObjectOfType<T>()

UnityEngine.Object.FindObjectsOfTypeAll(System.Type)

UnityEngine.Object.FindObjectOfType(System.Type)

UnityEngine.Object.ToString()

UnityEngine.Object.name

UnityEngine.Object.hideFlags

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

 ${\bf Namespace: LeTai. Asset. Translucent Image}$

Assembly: LeTai.TranslucentImage.dll

Syntax

[CreateAssetMenu(fileName = "New Scalable Blur Config", menuName = "Translucent Image/ Scalable Blur Config")] public class ScalableBlurConfig : BlurConfig

Properties

Iteration

Half the number of time to process the image. It is half because the real number of iteration must alway be even. Using half also make calculation simpler

Declaration

public int Iteration { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Int32	Must be non-negative

MaxDepth

Clamp the minimum size of the intermediate texture. Reduce flickering and blur

Declaration

public int MaxDepth { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Int32	Must larger than 0

Radius

Distance between the base texel and the texel to be sampled.

Declaration

public float Radius { get; set; }

Property Value

TYPE	DESCRIPTION
System.Single	

Strength

User friendly property to control the amount of blur

Declaration

public float Strength { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Single	Must be non-negative

Methods

${\bf Set Advanced Field From Simple ()}$

Calculate size and iteration from strength

Declaration

protected virtual void SetAdvancedFieldFromSimple()

Class ShaderId

Inheritance

System.Object

Shaderld

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: LeTai.Asset.TranslucentImage Assembly: LeTai.TranslucentImage.dll

Syntax

public static class Shaderld

Fields

CROP_REGION

Declaration

public static readonly int CROP_REGION

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

RADIUS

Declaration

public static readonly int RADIUS

Field Value

TYPE	DESCRIPTION
System.Int32	

Class TranslucentImage

Dynamic blur-behind UI element

Inheritance

System.Object

UnityEngine.Object

UnityEngine.Component

UnityEngine.Behaviour

UnityEngine.MonoBehaviour

UnityEngine.EventSystems.UlBehaviour

UnityEngine.UI.Graphic

UnityEngine.UI.MaskableGraphic

UnityEngine.UI.Image

Translucentlmage

Implements

UnityEngine.UI.ICanvasElement

UnityEngine.UI.IClippable

UnityEngine.UI.IMaskable

UnityEngine.UI.IMaterialModifier

UnityEngine.ISerializationCallbackReceiver

UnityEngine.UI.ILayoutElement

UnityEngine.lCanvasRaycastFilter

UnityEngine.UI.IMeshModifier

Inherited Members

UnityEngine.UI.Image.s ETC1DefaultUI

UnityEngine.UI.Image.DisableSpriteOptimizations()

UnityEngine.UI.Image.OnBeforeSerialize()

UnityEngine.UI.Image.OnAfterDeserialize()

UnityEngine.UI.Image.SetNativeSize()

UnityEngine.UI.Image.OnPopulateMesh(UnityEngine.UI.VertexHelper)

UnityEngine.UI.Image.UpdateMaterial()

UnityEngine.UI.Image.OnCanvasHierarchyChanged()

UnityEngine.UI.Image.CalculateLayoutInputHorizontal()

UnityEngine.UI.Image.CalculateLayoutInputVertical()

UnityEngine.UI.lmage.lsRaycastLocationValid(UnityEngine.Vector2, UnityEngine.Camera)

UnityEngine.UI.Image.OnValidate()

UnityEngine.UI.Image.sprite

UnityEngine.UI.Image.overrideSprite

UnityEngine.UI.Image.type

UnityEngine.UI.Image.preserveAspect

UnityEngine.UI.Image.fillCenter

UnityEngine.UI.Image.fillMethod

UnityEngine.UI.Image.fillAmount

UnityEngine.UI.Image.fillClockwise

UnityEngine.UI.Image.fillOrigin

UnityEngine.UI.Image.eventAlphaThreshold

UnityEngine.UI.Image.alphaHitTestMinimumThreshold

UnityEngine.UI.Image.useSpriteMesh

UnityEngine.UI.Image.defaultETC1GraphicMaterial

UnityEngine.UI.Image.mainTexture

UnityEngine.UI.Image.hasBorder

UnityEngine.UI.Image.pixelsPerUnitMultiplier

UnityEngine.UI.Image.pixelsPerUnit

UnityEngine.UI.Image.multipliedPixelsPerUnit

UnityEngine.UI.Image.material

UnityEngine.UI.Image.minWidth

UnityEngine.UI.Image.preferredWidth

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UnityEngine.UI.Image.preferredHeight

UnityEngine.UI.Image.flexibleHeight

UnityEngine.UI.Image.layoutPriority

UnityEngine.UI.MaskableGraphic.m ShouldRecalculateStencil

UnityEngine.UI.MaskableGraphic.m MaskMaterial

UnityEngine.UI.MaskableGraphic.m StencilValue

UnityEngine.UI.MaskableGraphic.GetModifiedMaterial(UnityEngine.Material)

UnityEngine.UI.MaskableGraphic.Cull(UnityEngine.Rect, System.Boolean)

UnityEngine.UI.MaskableGraphic.SetClipRect(UnityEngine.Rect, System.Boolean)

UnityEngine.UI.MaskableGraphic.SetClipSoftness(UnityEngine.Vector2)

UnityEngine.UI.MaskableGraphic.OnTransformParentChanged()

UnityEngine.UI.MaskableGraphic.RecalculateClipping()

UnityEngine.UI.MaskableGraphic.RecalculateMasking()

UnityEngine.UI.MaskableGraphic.UnityEngine.UI.IClippable.get_gameObject()

UnityEngine.UI.MaskableGraphic.onCullStateChanged

UnityEngine.UI.MaskableGraphic.maskable

UnityEngine.UI.MaskableGraphic.isMaskingGraphic

UnityEngine.UI.Graphic.s DefaultUI

UnityEngine.UI.Graphic.s WhiteTexture

UnityEngine.UI.Graphic.m_Material

UnityEngine.UI.Graphic.m SkipLayoutUpdate

UnityEngine.UI.Graphic.m_SkipMaterialUpdate

 $Unity Engine. UI. Graphic. m_On Dirty Layout Callback\\$

UnityEngine.UI.Graphic.m OnDirtyVertsCallback

 $Unity Engine. UI. Graphic. m_On Dirty Material Callback\\$

UnityEngine.UI.Graphic.s Mesh

UnityEngine.UI.Graphic.m_CachedMesh

UnityEngine.UI.Graphic.m CachedUvs

UnityEngine.UI.Graphic.SetAllDirty()

UnityEngine.UI.Graphic.SetLayoutDirty()

UnityEngine.UI.Graphic.SetVerticesDirty()

UnityEngine.UI.Graphic.SetMaterialDirty()

UnityEngine.UI.Graphic.OnRectTransformDimensionsChange()

Unity Engine. UI. Graphic. On Before Transform Parent Changed ()

UnityEngine.UI.Graphic.OnDestroy()

UnityEngine.UI.Graphic.OnCullingChanged()

UnityEngine.UI.Graphic.Rebuild(UnityEngine.UI.CanvasUpdate)

UnityEngine.UI.Graphic.LayoutComplete()

UnityEngine.UI.Graphic.GraphicUpdateComplete()

UnityEngine.UI.Graphic.UpdateGeometry()

UnityEngine.UI.Graphic.OnPopulateMesh(UnityEngine.Mesh)

UnityEngine.UI.Graphic.OnRebuildRequested()

UnityEngine.UI.Graphic.Reset()

UnityEngine.UI.Graphic.Raycast(UnityEngine.Vector2, UnityEngine.Camera)

UnityEngine.UI.Graphic.PixelAdjustPoint(UnityEngine.Vector2)

UnityEngine.UI.Graphic.GetPixelAdjustedRect()

UnityEngine.UI.Graphic.CrossFadeColor(UnityEngine.Color, System.Single, System.Boolean, System.Boolean)

UnityEngine.UI.Graphic.CrossFadeColor(UnityEngine.Color, System.Single, System.Boolean, System

UnityEngine.UI.Graphic.CrossFadeAlpha(System.Single, System.Single, System.Boolean)

UnityEngine.UI.Graphic.RegisterDirtyLayoutCallback(UnityEngine.Events.UnityAction)

UnityEngine.UI.Graphic.UnregisterDirtyLayoutCallback(UnityEngine.Events.UnityAction)

UnityEngine.UI.Graphic.RegisterDirtyVerticesCallback(UnityEngine.Events.UnityAction)

UnityEngine.UI.Graphic.UnregisterDirtyVerticesCallback(UnityEngine.Events.UnityAction)

UnityEngine.UI.Graphic.RegisterDirtyMaterialCallback(UnityEngine.Events.UnityAction)

UnityEngine.UI.Graphic.UnregisterDirtyMaterialCallback(UnityEngine.Events.UnityAction)

UnityEngine.UI.Graphic.UnityEngine.UI.ICanvasElement.get transform()

UnityEngine.UI.Graphic.defaultGraphicMaterial

UnityEngine.UI.Graphic.color

UnityEngine.UI.Graphic.raycastTarget

UnityEngine.UI.Graphic.useLegacyMeshGeneration

UnityEngine.UI.Graphic.depth

UnityEngine.UI.Graphic.rectTransform

UnityEngine.UI.Graphic.canvas

UnityEngine.UI.Graphic.canvasRenderer

UnityEngine.UI.Graphic.defaultMaterial

UnityEngine.UI.Graphic.materialForRendering

UnityEngine.UI.Graphic.workerMesh

UnityEngine.EventSystems.UlBehaviour.Awake()

UnityEngine.EventSystems.UlBehaviour.lsActive()

UnityEngine.EventSystems.UlBehaviour.OnCanvasGroupChanged()

UnityEngine.EventSystems.UlBehaviour.lsDestroyed()

UnityEngine.MonoBehaviour.lsInvoking()

UnityEngine.MonoBehaviour.Cancellnvoke()

UnityEngine.MonoBehaviour.Invoke(System.String, System.Single)

UnityEngine.MonoBehaviour.InvokeRepeating(System.String, System.Single, System.Single)

UnityEngine.MonoBehaviour.Cancellnvoke(System.String)

UnityEngine.MonoBehaviour.lsInvoking(System.String)

UnityEngine.MonoBehaviour.StartCoroutine(System.String)

UnityEngine.MonoBehaviour.StartCoroutine(System.String, System.Object)

UnityEngine.MonoBehaviour.StartCoroutine(System.Collections.lEnumerator)

UnityEngine.MonoBehaviour.StartCoroutine Auto(System.Collections.lEnumerator)

UnityEngine.MonoBehaviour.StopCoroutine(System.Collections.lEnumerator)

UnityEngine.MonoBehaviour.StopCoroutine(UnityEngine.Coroutine)

UnityEngine.MonoBehaviour.StopCoroutine(System.String)

UnityEngine.MonoBehaviour.StopAllCoroutines()

UnityEngine.MonoBehaviour.print(System.Object)

Unity Engine. Mono Behaviour. use GUIL ayout

Unity Engine. Mono Behaviour. run In Edit Mode

UnityEngine.Behaviour.enabled

UnityEngine.Behaviour.isActiveAndEnabled

 $\label{lem:component} \mbox{UnityEngine.Component}. \mbox{GetComponent} (\mbox{System.Type})$

UnityEngine.Component.GetComponent<T>()

UnityEngine.Component.TryGetComponent(System.Type, UnityEngine.Component)

UnityEngine.Component.TryGetComponent<T>(T)

UnityEngine.Component.GetComponent(System.String)

UnityEngine.Component.GetComponentlnChildren(System.Type, System.Boolean)

UnityEngine.Component.GetComponentlnChildren(System.Type)

UnityEngine.Component.GetComponentlnChildren<T>(System.Boolean)

UnityEngine.Component.GetComponentlnChildren<T>()

UnityEngine.Component.GetComponentsInChildren(System.Type, System.Boolean)

UnityEngine.Component.GetComponentsInChildren(System.Type)

UnityEngine.Component.GetComponentsInChildren<T>(System.Boolean)

UnityEngine.Component.GetComponentsInChildren<T>(System.Boolean, System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentsInChildren<T>()

UnityEngine.Component.GetComponentsInChildren<T>(System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentInParent(System.Type)

UnityEngine.Component.GetComponentlnParent<T>()

UnityEngine.Component.GetComponentsInParent(System.Type, System.Boolean)

UnityEngine.Component.GetComponentsInParent(System.Type)

UnityEngine.Component.GetComponentsInParent<T>(System.Boolean)

UnityEngine.Component.GetComponentsInParent<T>(System.Boolean, System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentsInParent<T>()

UnityEngine.Component.GetComponents(System.Type)

UnityEngine.Components(GetComponents(System.Type, System.Collections.Generic.List<UnityEngine.Component>)

UnityEngine.Component.GetComponents<T>(System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponents<T>()

UnityEngine.Component.CompareTag(System.String)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object)

UnityEngine.Component.SendMessageUpwards(System.String)

UnityEngine.Component.SendMessageUpwards(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessage(System.String, System.Object)

UnityEngine.Component.SendMessage(System.String)

UnityEngine.Component.SendMessage(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessage(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.BroadcastMessage(System.String, System.Object, UnityEngine.SendMessageOptions)

 $\label{lem:component} \mbox{UnityEngine.Component.BroadcastMessage} (\mbox{System.String, System.Object})$

UnityEngine.Component.BroadcastMessage(System.String)

UnityEngine.Component.BroadcastMessage(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.transform

UnityEngine.Component.gameObject

UnityEngine.Component.tag

UnityEngine.Object.GetInstanceID()

UnityEngine.Object.GetHashCode()

UnityEngine.Object.Equals(System.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Instantiate<T>(T)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Destroy(UnityEngine.Object, System.Single)

UnityEngine.Object.Destroy(UnityEngine.Object)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object, System.Boolean)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object)

UnityEngine.Object.FindObjectsOfType(System.Type)

UnityEngine.Object.DontDestroyOnLoad(UnityEngine.Object)

UnityEngine.Object.DestroyObject(UnityEngine.Object, System.Single)

UnityEngine.Object.DestroyObject(UnityEngine.Object)

UnityEngine.Object.FindSceneObjectsOfType(System.Type)

UnityEngine.Object.FindObjectsOfTypeIncludingAssets(System.Type)

UnityEngine.Object.FindObjectsOfType<T>()

UnityEngine.Object.FindObjectOfType<T>()

UnityEngine.Object.FindObjectsOfTypeAll(System.Type)

UnityEngine.Object.FindObjectOfType(System.Type)

UnityEngine.Object.ToString()

UnityEngine.Object.name

UnityEngine.Object.hideFlags

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

 ${\bf Namespace: LeTai. Asset. Translucent Image}$

Assembly: LeTai.TranslucentImage.dll

Syntax

[HelpURL("https://leloctai.com/asset/translucentimage/docs/articles/customize.html#translucent-image")]

public class TranslucentImage: Image, ICanvasElement, IClippable, IMaskable, IMaterialModifier, ISerializationCallbackReceiver, ILayoutElement, ICanvasRaycastFilter, IMeshModifier

Fields

brightness

Brighten/darken them image

Declaration

[Tooltip("Brighten/darken them image")]

[Range(-1F, 1F)]

public float brightness

Field Value

ТҮРЕ	DESCRIPTION
System.Single	

flatten

Flatten the color behind to help keep contrast on varying background

Declaration

[Tooltip("Flatten the color behind to help keep contrast on varying background")]

[Range(0F, 1F)]

public float flatten

Field Value

ТҮРЕ	DESCRIPTION
System.Single	

m_spriteBlending

Declaration

[Tooltip("Blend between the sprite and background blur")]
[Range(0F, 1F)]
[FormerlySerializedAs("spriteBlending")]
public float m_spriteBlending

Field Value

TYPE	DESCRIPTION
System.Single	

source

Source of blur for this image

Declaration

public TranslucentlmageSource source

Field Value

ТҮРЕ	DESCRIPTION
TranslucentlmageSource	

vibrancy

(De)Saturate them image, 1 is normal, 0 is grey scale, below zero make the image negative

Declaration

[Tooltip("(De)Saturate them image, 1 is normal, 0 is black and white, below zero make the image negative")]
[Range(-1F, 3F)]
public float vibrancy

Field Value

TYPE	DESCRIPTION
System.Single	

Properties

spriteBlending

Declaration

public float spriteBlending { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
System.Single	

Methods

ModifyMesh(Mesh)

Declaration

public virtual void ModifyMesh(Mesh mesh)

Parameters

TYPE	NAME	DESCRIPTION
UnityEngine.Mesh	mesh	

ModifyMesh(VertexHelper)

Declaration

public virtual void ModifyMesh(VertexHelper vh)

Parameters

TYPE	NAME	DESCRIPTION
UnityEngine.UI.VertexHelper	vh	

OnDidApplyAnimationProperties()

Declaration

protected override void OnDidApplyAnimationProperties()

Overrides

UnityEngine.UI.Image.OnDidApplyAnimationProperties()

OnDisable()

Declaration

protected override void OnDisable()

Overrides

UnityEngine.UI.lmage.OnDisable()

OnEnable()

Declaration

protected override void OnEnable()

Overrides

UnityEngine.UI.Image.OnEnable()

Start()

Declaration

protected override void Start()

Overrides

UnityEngine.EventSystems.UlBehaviour.Start()

Implements

UnityEngine.UI.ICanvasElement

UnityEngine.UI.IClippable

UnityEngine.UI.IMaskable

UnityEngine.UI.IMaterialModifier

UnityEngine.ISerializationCallbackReceiver

 $\label{lem:unityEngine.UI.ILayoutElement} UnityEngine.UI.ILayoutElement$

UnityEngine.lCanvasRaycastFilter

UnityEngine.UI.IMeshModifier

Class TranslucentImageSource

Common source of blur for Translucent Images.

Inheritance

System.Object

UnityEngine.Object

UnityEngine.Component

UnityEngine.Behaviour

UnityEngine.MonoBehaviour

TranslucentlmageSource

Inherited Members

UnityEngine.MonoBehaviour.lsInvoking()

UnityEngine.MonoBehaviour.Cancellnvoke()

UnityEngine.MonoBehaviour.Invoke(System.String, System.Single)

UnityEngine.MonoBehaviour.InvokeRepeating(System.String, System.Single, System.Single)

UnityEngine.MonoBehaviour.Cancellnvoke(System.String)

UnityEngine.MonoBehaviour.lsInvoking(System.String)

UnityEngine.MonoBehaviour.StartCoroutine(System.String)

UnityEngine.MonoBehaviour.StartCoroutine(System.String, System.Object)

Unity Engine. Mono Behaviour. Start Coroutine (System. Collections. I Enumerator)

UnityEngine.MonoBehaviour.StartCoroutine_Auto(System.Collections.lEnumerator)

UnityEngine.MonoBehaviour.StopCoroutine(System.Collections.lEnumerator)

UnityEngine.MonoBehaviour.StopCoroutine(UnityEngine.Coroutine)

UnityEngine.MonoBehaviour.StopCoroutine(System.String)

UnityEngine.MonoBehaviour.StopAllCoroutines()

UnityEngine.MonoBehaviour.print(System.Object)

UnityEngine.MonoBehaviour.useGUILayout

UnityEngine.MonoBehaviour.runlnEditMode

UnityEngine.Behaviour.enabled

UnityEngine.Behaviour.isActiveAndEnabled

UnityEngine.Component.GetComponent(System.Type)

UnityEngine.Component.GetComponent<T>()

UnityEngine.Component.TryGetComponent(System.Type, UnityEngine.Component)

UnityEngine.Component.TryGetComponent<T>(T)

UnityEngine.Component.GetComponent(System.String)

UnityEngine.Component.GetComponentlnChildren(System.Type, System.Boolean)

UnityEngine.Component.GetComponentlnChildren(System.Type)

UnityEngine.Component.GetComponentlnChildren<T>(System.Boolean)

UnityEngine.Component.GetComponentlnChildren<T>()

UnityEngine.Component.GetComponentsInChildren(System.Type, System.Boolean)

UnityEngine.Component.GetComponentsInChildren(System.Type)

UnityEngine.Component.GetComponentsInChildren<T>(System.Boolean)

UnityEngine.Component.GetComponentsInChildren<T>(System.Boolean, System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentsInChildren<T>()

 $\label{lem:component} Unity Engine. Component. Get Components In Children < T > (System. Collections. Generic. List < T >)$

UnityEngine.Component.GetComponentInParent(System.Type)

UnityEngine.Component.GetComponentInParent<T>()

UnityEngine.Component.GetComponentsInParent(System.Type, System.Boolean)

UnityEngine.Component.GetComponentsInParent(System.Type)

UnityEngine.Component.GetComponentsInParent<T>(System.Boolean)

UnityEngine.Component.GetComponentsInParent<T>(System.Boolean, System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponentsInParent<T>()

UnityEngine.Component.GetComponents(System.Type)

UnityEngine.Component.GetComponents(System.Type, System.Collections.Generic.List<UnityEngine.Component>)

UnityEngine.Component.GetComponents<T>(System.Collections.Generic.List<T>)

UnityEngine.Component.GetComponents<T>()

UnityEngine.Component.CompareTag(System.String)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessageUpwards(System.String, System.Object)

UnityEngine.Component.SendMessageUpwards(System.String)

UnityEngine.Component.SendMessageUpwards(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessage(System.String, System.Object)

UnityEngine.Component.SendMessage(System.String)

UnityEngine.Component.SendMessage(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.SendMessage(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.BroadcastMessage(System.String, System.Object, UnityEngine.SendMessageOptions)

UnityEngine.Component.BroadcastMessage(System.String, System.Object)

UnityEngine.Component.BroadcastMessage(System.String)

UnityEngine.Component.BroadcastMessage(System.String, UnityEngine.SendMessageOptions)

UnityEngine.Component.transform

UnityEngine.Component.gameObject

UnityEngine.Component.tag

UnityEngine.Object.GetInstanceID()

UnityEngine.Object.GetHashCode()

UnityEngine.Object.Equals(System.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Instantiate<T>(T)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Destroy(UnityEngine.Object, System.Single)

UnityEngine.Object.Destroy(UnityEngine.Object)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object, System.Boolean)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object)

UnityEngine.Object.FindObjectsOfType(System.Type)

UnityEngine.Object.DontDestroyOnLoad(UnityEngine.Object)

UnityEngine.Object.DestroyObject(UnityEngine.Object, System.Single)

UnityEngine.Object.DestroyObject(UnityEngine.Object)

UnityEngine.Object.FindSceneObjectsOfType(System.Type)

UnityEngine.Object.FindObjectsOfTypeIncludingAssets(System.Type)

UnityEngine.Object.FindObjectsOfType<T>()

UnityEngine.Object.FindObjectOfType<T>()

UnityEngine.Object.FindObjectsOfTypeAll(System.Type)

UnityEngine.Object.FindObjectOfType(System.Type)

UnityEngine.Object.ToString()

UnityEngine.Object.name

UnityEngine.Object.hideFlags

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: LeTai.Asset.TranslucentImage Assembly: LeTai.TranslucentImage.dll

Syntax

[ExecuteAlways]

[RequireComponent(typeof(Camera))]

[AddComponentMenu("Image Effects/Tai Le Assets/Translucent Image Source")]

[HelpURL("https://leloctai.com/asset/translucentimage/docs/articles/customize.html#translucent-image-source")]

public class TranslucentlmageSource : MonoBehaviour

Remarks

It is an Image effect that blur the render target of the Camera it attached to, then save the result to a global read-only Render Texture

Fields

maxUpdateRate

Maximum number of times to update the blurred image each second

Declaration

public float maxUpdateRate

Field Value

ТҮРЕ	DESCRIPTION
System.Single	

preview

Render the blurred result to the render target

Declaration

public bool preview

Field Value

TYPE		DESCRIPTION
System	n.Boolean	

Properties

BlurAlgorithmSelection

Declaration

public BlurAlgorithmType BlurAlgorithmSelection { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
BlurAlgorithmType	

BlurConfig

Declaration

public BlurConfig { get; set; }

Property Value

TYPE	DESCRIPTION
BlurConfig	

BlurredScreen

Result of the image effect. Translucent Image use this as their content (read-only)

Declaration

public RenderTexture BlurredScreen { get; set; }

Property Value

TYPE	DESCRIPTION
UnityEngine.RenderTexture	

BlurRegion

Define the rectangular area on screen that will be blurred.

Declaration

public Rect BlurRegion { get; set; }

Property Value

ТҮРЕ	DESCRIPTION
UnityEngine.Rect	Between 0 and 1

BlurRegionNormalizedScreenSpace

Declaration

public Rect BlurRegionNormalizedScreenSpace { get; set; }

Property Value

TYPE	DESCRIPTION
UnityEngine.Rect	

Downsample

The rendered image will be shrinked by a factor of 2^{{this}} before bluring to reduce processing time

Declaration

public int Downsample { get; set; }

TYPE	DESCRIPTION
System.Int32	Must be non-negative. Default to 0

Methods

CreateNewBlurredScreen()

Declaration

protected virtual void CreateNewBlurredScreen()

OnBeforeBlur()

Declaration

public void OnBeforeBlur()

OnRenderImage(RenderTexture, RenderTexture)

Declaration

protected virtual void OnRenderlmage(RenderTexture source, RenderTexture destination)

Parameters

TYPE	NAME	DESCRIPTION
UnityEngine.RenderTexture	source	
UnityEngine.RenderTexture	destination	

shouldUpdateBlur()

Declaration

public bool shouldUpdateBlur()

Returns

TYPE	DESCRIPTION
System.Boolean	

Start()

Declaration

protected virtual void Start()

Namespace LeTai.Asset.TranslucentImage.UniversalRP

Classes	
Extensions	
ScalableBlur	
ShaderId	
TranslucentImageBlurRenderPass	
TranslucentImageBlurSource	
Utilities	
Interfaces	
IBlurAlgorithm	
Enums	

BlitMode

BlurAlgorithmType

RenderOrder

Enum BlitMode

 ${\bf Name space: LeTai. As set. Translucent Image. Universal RP}$

 ${\bf Assembly: LeTai. Translucent Image. Universal RP. dII}$

Syntax

Fields

NAME	DESCRIPTION
Procedural	
Triangle	

Enum BlurAlgorithmType

 ${\bf Namespace: LeTai. Asset. Translucent Image. Universal RP}$

 ${\bf Assembly: LeTai. Translucent Image. Universal RP. dll}$

Syntax

[MovedFrom("LeTai.Asset.TranslucentImage.LWRP")] public enum BlurAlgorithmType

Fields

NAME	DESCRIPTION
ScalableBlur	

Class Extensions

Inheritance

System.Object

Extensions

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: LeTai.Asset.TranslucentImage.UniversalRP Assembly: LeTai.TranslucentImage.UniversalRP.dll

Syntax

public static class Extensions

Methods

BlitCustom(CommandBuffer, RenderTargetIdentifier, RenderTargetIdentifier, Material, Int32, BlitMode)

Declaration

public static void BlitCustom(this CommandBuffer cmd, RenderTargetIdentifier source, RenderTargetIdentifier destination, Material material, int passIndex, BlitMode blitMode)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.Rendering.CommandBuffer	cmd	
UnityEngine.Rendering.RenderTargetIdentifier	source	
UnityEngine.Rendering.RenderTargetIdentifier	destination	
UnityEngine.Material	material	
System.Int32	passIndex	
BlitMode	blitMode	

BlitProcedural(CommandBuffer, RenderTargetIdentifier, RenderTargetIdentifier, Material, Int32)

Declaration

public static void BlitProcedural(this CommandBuffer cmd, RenderTargetIdentifier source, RenderTargetIdentifier destination, Material material, int passIndex)

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.Rendering.CommandBuffer	cmd	

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.Rendering.RenderTargetIdentifier	source	
UnityEngine.Rendering.RenderTargetIdentifier	destination	
UnityEngine.Material	material	
System.Int32	passIndex	

Interface IBIurAlgorithm

 ${\bf Namespace: LeTai. Asset. Translucent Image. Universal RP}$

Assembly: LeTai. Translucent Image. Universal RP. d II

Syntax

[MovedFrom("LeTai.Asset.TranslucentImage.LWRP")] public interface IBlurAlgorithm

Methods

Blur(CommandBuffer, RenderTargetIdentifier, Rect, RenderTexture)

Declaration

void Blur(CommandBuffer cmd, RenderTargetIdentifier src, Rect srcCropRegion, RenderTexture target)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.Rendering.CommandBuffer	cmd	
UnityEngine.Rendering.RenderTargetIdentifier	src	
UnityEngine.Rect	srcCropRegion	
UnityEngine.RenderTexture	target	

Init(BlurConfig, BlitMode)

Declaration

void Init(BlurConfig config, BlitMode blitMode)

TYPE	NAME	DESCRIPTION
BlurConfig	config	
BlitMode	blitMode	

Enum RenderOrder

 ${\bf Name space: LeTai. Asset. Translucent Image. Universal RP}$

 ${\bf Assembly: LeTai. Translucent Image. Universal RP. d II}$

Syntax

public enum RenderOrder

Fields

NAME	DESCRIPTION
AfterPostProcessing	
BeforePostProcessing	

Class ScalableBlur

Inheritance

System.Object

ScalableBlur

Implements

IBlurAlgorithm

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: LeTai.Asset.TranslucentImage.UniversalRP Assembly: LeTai.TranslucentImage.UniversalRP.dll

Syntax

[MovedFrom("LeTai.Asset.TranslucentImage.LWRP")]

public class ScalableBlur: IBlurAlgorithm

Methods

Blur(CommandBuffer, RenderTargetIdentifier, Rect, RenderTexture)

Declaration

public void Blur(CommandBuffer cmd, RenderTargetIdentifier src, Rect srcCropRegion, RenderTexture target)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.Rendering.CommandBuffer	cmd	
UnityEngine.Rendering.RenderTargetIdentifier	src	
UnityEngine.Rect	srcCropRegion	
UnityEngine.RenderTexture	target	

BlurAtDepth(CommandBuffer, Int32, RenderTexture)

Declaration

protected virtual void BlurAtDepth(CommandBuffer cmd, int depth, RenderTexture baseTexture)

TYPE	NAME	DESCRIPTION
UnityEngine.Rendering.CommandBuffer	cmd	
System.Int32	depth	

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.RenderTexture	baseTexture	

ConfigMaterial(Single, Vector4)

Declaration

protected void ConfigMaterial(float radius, Vector4 cropRegion)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Single	radius	
UnityEngine.Vector4	cropRegion	

Init(BlurConfig, BlitMode)

Declaration

public void Init(BlurConfig config, BlitMode blitMode)

Parameters

TYPE		NAME	DESCRIPTION
BlurCo	onfig	config	
BlitMod	de	blitMode	

Implements

IBlurAlgorithm

Class ShaderId

Inheritance

System.Object

Shaderld

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

 $\label{lem:lemmage.UniversalRP} \\ Assembly: LeTai. Translucent Image. Universal RP. d II \\$

Syntax

public static class Shaderld

Fields

intermediateRT

Declaration

public static int[] intermediateRT

Field Value

ТҮРЕ	DESCRIPTION
System.Int32[]	

MAIN_TEX

Declaration

public static readonly int MAIN_TEX

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

Methods

Init(Int32)

Declaration

public static void Init(int stackDepth)

ТҮРЕ	NAME	DESCRIPTION
System.Int32	stackDepth	

Class TranslucentImageBlurRenderPass

Inheritance

System.Object

UnityEngine.Rendering.Universal.ScriptableRenderPass

TranslucentlmageBlurRenderPass

Inherited Members

UnityEngine.Rendering.Universal.ScriptableRenderPass.ConfigureTarget(UnityEngine.Rendering.RenderTargetIdentifier,

UnityEngine.Rendering.RenderTargetIdentifier)

UnityEngine.Rendering.Universal.ScriptableRenderPass.ConfigureTarget(UnityEngine.Rendering.RenderTargetIdentifier[],

UnityEngine.Rendering.RenderTargetIdentifier)

UnityEngine.Rendering.Universal.ScriptableRenderPass.ConfigureTarget(UnityEngine.Rendering.RenderTargetIdentifier)

UnityEngine.Rendering.Universal.ScriptableRenderPass.ConfigureTarget(UnityEngine.Rendering.RenderTargetIdentifier[])

UnityEngine.Rendering.Universal.ScriptableRenderPass.ConfigureClear(UnityEngine.Rendering.ClearFlag, UnityEngine.Color)

UnityEngine.Rendering.Universal.ScriptableRenderPass.Configure(UnityEngine.Rendering.CommandBuffer, UnityEngine.RenderTextureDescriptor)

UnityEngine.Rendering.Universal.ScriptableRenderPass.FrameCleanup(UnityEngine.Rendering.CommandBuffer)

Unity Engine. Rendering. Unity Engine. Rendering. Command Buffer, Unity Engine. Rendering. Command Buffer. Command Buffer.

UnityEngine.Rendering.RenderTargetIdentifier, UnityEngine.Material, System.Int32)

UnityEngine.Rendering.Universal.ScriptableRenderPass.RenderPostProcessing(UnityEngine.Rendering.CommandBuffer,

UnityEngine.Rendering.Universal.CameraData, UnityEngine.RenderTextureDescriptor, UnityEngine.Rendering.RenderTargetIdentifier,

UnityEngine.Rendering.RenderTargetIdentifier, System.Boolean, System.Boolean)

UnityEngine.Rendering.Universal.ScriptableRenderPass.CreateDrawingSettings(UnityEngine.Rendering.ShaderTagld,

UnityEngine.Rendering.Universal.RenderingData, UnityEngine.Rendering.SortingCriteria)

UnityEngine.Rendering.Universal.ScriptableRenderPass.CreateDrawingSettings(System.Collections.Generic.List<UnityEngine.Rendering.ShaderTagld>,

UnityEngine.Rendering.Universal.RenderingData, UnityEngine.Rendering.SortingCriteria)

UnityEngine.Rendering.Universal.ScriptableRenderPass.renderPassEvent

UnityEngine.Rendering.Universal.ScriptableRenderPass.colorAttachments

Unity Engine. Rendering. Universal. Scriptable Render Pass. color Attachment

UnityEngine.Rendering.Universal.ScriptableRenderPass.depthAttachment

 $\label{lem:continuity} Unity Engine. Rendering. Universal. Scriptable Render Pass. clear Flag$

UnityEngine.Rendering.Universal.ScriptableRenderPass.clearColor

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

 ${\bf Namespace: LeTai. Asset. Translucent Image. Universal RP}$

Assembly: LeTai.TranslucentImage.UniversalRP.dll

Syntax

[MovedFrom("LeTai.Asset.TranslucentImage.LWRP")]

public class TranslucentlmageBlurRenderPass : ScriptableRenderPass

Properties

PreviewMaterial

Declaration

public Material PreviewMaterial { get; }

Property Value

TYPE	DESCRIPTION
UnityEngine.Material	

Methods

Execute(ScriptableRenderContext, ref RenderingData)

Declaration

public override void Execute(ScriptableRenderContext context, ref RenderingData renderingData)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.Rendering.ScriptableRenderContext	context	
UnityEngine.Rendering.Universal.RenderingData	renderingData	

Overrides

 $\label{lem:context} \mbox{UnityEngine.Rendering.Universal.ScriptableRenderPass.Execute} (\mbox{UnityEngine.Rendering.ScriptableRenderContext}, \mbox{UnityEngine.Rendering.Universal.RenderingData})$

Finalize()

Declaration

protected void Finalize()	protected	void	Finalize()
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Class TranslucentImageBlurSource

Inheritance

System.Object

UnityEngine.Object

UnityEngine.ScriptableObject

UnityEngine.Rendering.Universal.ScriptableRendererFeature

TranslucentlmageBlurSource

Inherited Members

UnityEngine.Rendering.Universal.ScriptableRendererFeature.SetActive(System.Boolean)

UnityEngine.Rendering.Universal.ScriptableRendererFeature.isActive

UnityEngine.ScriptableObject.SetDirty()

UnityEngine.ScriptableObject.CreateInstance(System.String)

UnityEngine.ScriptableObject.CreateInstance(System.Type)

UnityEngine.ScriptableObject.CreateInstance<T>()

UnityEngine.Object.GetInstanceID()

UnityEngine.Object.GetHashCode()

UnityEngine.Object.Equals(System.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform)

UnityEngine.Object.Instantiate(UnityEngine.Object, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Instantiate<T>(T)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Vector3, UnityEngine.Quaternion, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform)

UnityEngine.Object.Instantiate<T>(T, UnityEngine.Transform, System.Boolean)

UnityEngine.Object.Destroy(UnityEngine.Object, System.Single)

UnityEngine.Object.Destroy(UnityEngine.Object)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object, System.Boolean)

UnityEngine.Object.DestroyImmediate(UnityEngine.Object)

UnityEngine.Object.FindObjectsOfType(System.Type)

UnityEngine.Object.DontDestroyOnLoad(UnityEngine.Object)

UnityEngine.Object.DestroyObject(UnityEngine.Object, System.Single)

UnityEngine.Object.DestroyObject(UnityEngine.Object)

UnityEngine.Object.FindSceneObjectsOfType(System.Type)

UnityEngine.Object.FindObjectsOfTypeIncludingAssets(System.Type)

UnityEngine.Object.FindObjectsOfType<T>()

UnityEngine.Object.FindObjectOfType<T>()

UnityEngine.Object.FindObjectsOfTypeAll(System.Type)

UnityEngine.Object.FindObjectOfType(System.Type)

UnityEngine.Object.ToString()

UnityEngine.Object.name

UnityEngine.Object.hideFlags

System.Object.Equals(System.Object, System.Object)

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

 ${\bf Names pace: LeTai. Asset. Translucent Image. Universal RPRESE of the property of the prop$

As sembly: LeTai. Translucent Image. Universal RP. dll

Syntax

[MovedFrom("LeTai.Asset.Translucentlmage.LWRP")]
public class TranslucentlmageBlurSource : ScriptableRendererFeature

Fields

blitMode

Declaration

public BlitMode blitMode

Field Value

ТҮРЕ	DESCRIPTION
BlitMode	

Methods

AddRenderPasses(ScriptableRenderer, ref RenderingData)

Declaration

public override void AddRenderPasses(ScriptableRenderer renderer, ref RenderingData renderingData)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.Rendering.Universal.ScriptableRenderer	renderer	
UnityEngine.Rendering.Universal.RenderingData	renderingData	

Overrides

UnityEngine.Rendering.Universal.ScriptableRendererFeature.AddRenderPasses(UnityEngine.Rendering.Universal.ScriptableRenderer, UnityEngine.Rendering.Universal.RenderingData)

Create()

Declaration

public override void Create()

Overrides

UnityEngine.Rendering.Universal.ScriptableRendererFeature.Create()

RegisterSource(TranslucentImageSource)

When adding new Translucent Image Source to existing Camera at run time, the new Source must be registered here

Declaration

public void RegisterSource(TranslucentImageSource source)

ТҮРЕ	NAME	DESCRIPTION
TranslucentlmageSource	source	

Class Utilities

Inheritance

System.Object

Utilities

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

 $\label{lem:lemmage.UniversalRP} \\ Assembly: LeTai. Translucent Image. Universal RP. d II \\$

Syntax

[MovedFrom("LeTai.Asset.TranslucentImage.LWRP")] public static class Utilities

Methods

SimplePingPong(Int32, Int32)

Declaration

public static int SimplePingPong(int t, int max)

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	t	
System.Int32	max	

Returns

ТҮРЕ	DESCRIPTION
System.Int32	