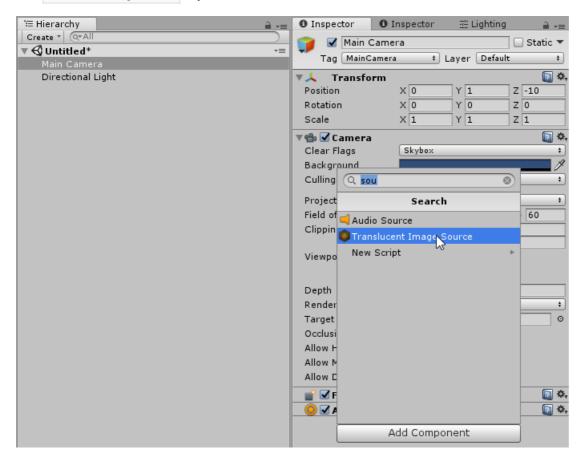
Table of Contents

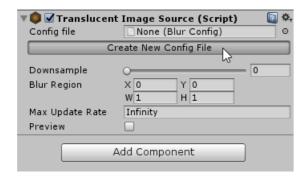
Articles Getting Started Customize Controls Translucent Image from script **Universal Render Pipeline** Blurring other UI elements World space UI **FAQ** Support Api Documentation LeTai.Asset.TranslucentImage BlurAlgorithmType BlurConfig **Extensions IBlurAlgorithm** ScalableBlur ScalableBlurConfig Shaderld TranslucentImage TranslucentImageSource LeTai.Asset.TranslucentImage.UniversalRP BlurAlgorithmType **IBlurAlgorithm** ScalableBlur Shaderld TranslucentImageBlurRenderPass TranslucentImageBlurSource **Utilities**

Getting Started

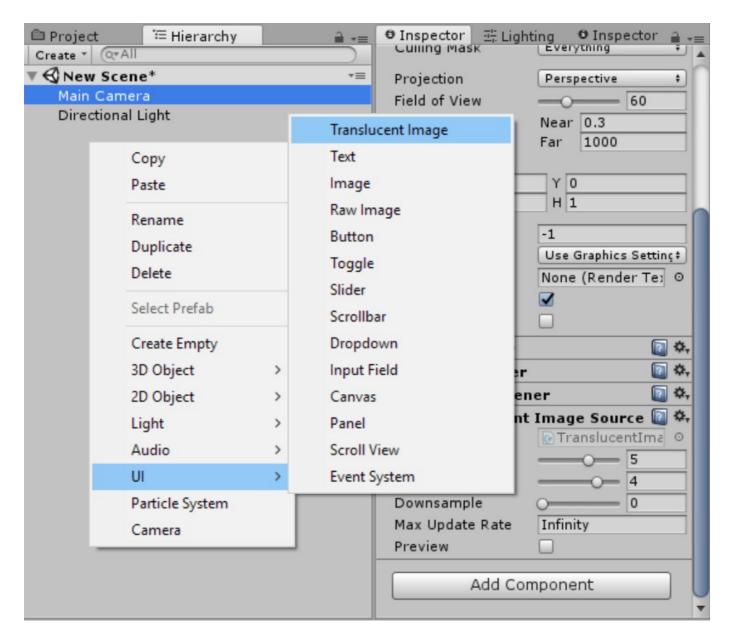
1. Add Translucent Image Source to your main camera.



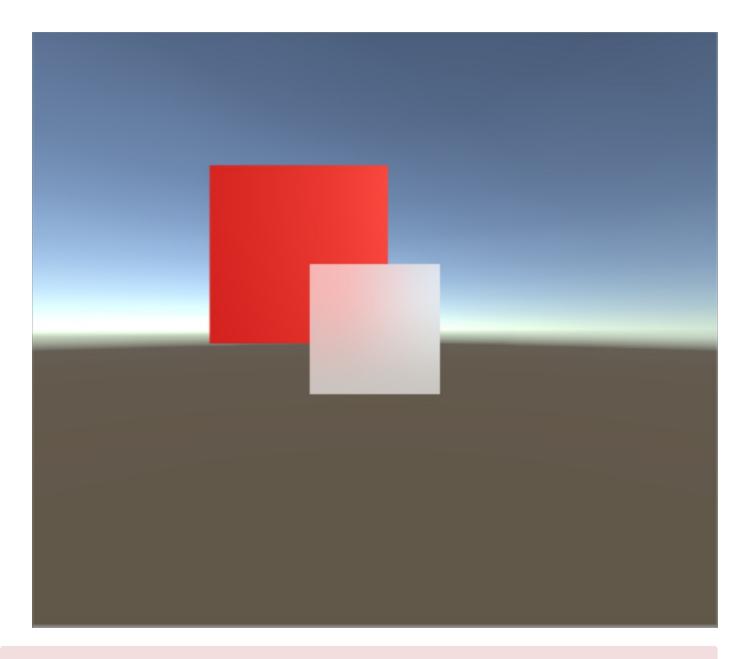
2. Create a Blur Config asset, or assign an existing one.



3. Create UI -> Translucent Image as you would with normal UI Image.



4. That's it!



▲ WARNING

By default, Translucent Image will use a default Material. To make sure your Translucent Image look 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 willcontinue to show even when exit play mode.

Customize

O NOTE

This asset was designed to be scalable. All properties that are said to affect performance below actually do so very little.

There are 2 components that form the effect, each with their own parameters that control how the effect look:

Translucent Image Source

This component offers two modes 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: How much blurriness you want. Doesn't affect performance, but will look bad if the number too big. Also reduce flickering.
 - o Iteration: Increase blur quality and blurriness when it is increased.
- Max Depth: Increase this property will:
 - o Increase flickering when background moving
 - o Increase blur level
 - Improve performance
- **Downsample**: Decrease the resolution before processing to increase performance. Side effect includes increased blurriness and flickering.
- **Blur Region**: Select the region of the screen to blur. If your UI does not span the entire screen, it might be a good idea to limit this to only the part that you use to increase performance and reduce power usage.

6 TIP

It easier if you tune the x and y value before w and h

- Max Update Rate: How many times the effect updates itself each second. Use this property to increase performance and decrease power usage. Set to 0 to pause, this can reduce power usage/ prevent overheat when you don't need a dynamically updating background, for example, in a pause menu.
- Preview: preview the effect in full-screen without creating a Translucent Image

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, but they can batch dynamically to only
 take one draw call.

▲ WARNING

- Material used here must use the shader Ul/TranslucentImage.
- You should create your own Material instead of the default to avoid changes to look after asset updates.
- Source: Translucent Image Source component. This is where the image gets the blurred background. It will automatically be

set to the first one found, so you should make sure there one in your scene before creating any Translucent Image. You can always override this to change which camera will provide the blurred background.

• Sprite Blending: Mix between background and foreground image.

Shared settings

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

- Vibrancy: How colorful you want the background to be, 0 mean black and white, negative value will invert the color.
- Brightness: Brighten or darken the background.
- **Flatten**: Make your Translucent Image more contrast-y against the background. Useful when you can't predict the color of the background.

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

Controlling the blur settings is not very straightforward. The blur settings are stored as a ScriptableObject. The easiest way to access these settings is to create a public/serialized field in your script. You can then assign the setting asset you want to control to it in the inspector:

```
public ScalableBlurConfig blurSettings;
```

Alternatively, if you already 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 = 69;
}
```

Universal Render Pipeline

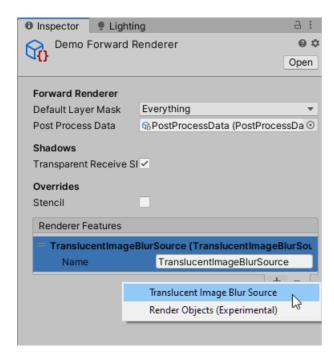
Requirements

The URP support package is tested on URP version 7.1.7 and Unity 2019.3.

The files required for URP support can be found by importing the unitypackage at: TranslucentImage/UniversalRP support. They are not included by default as they would produce errors for projects not using URP.

Tutorial

- 1. Import the package at TranslucentImage/UniversalRP support.
- 2. Find your **Forward Renderer Assets**, and add **TranslucentlmageBlurSource** to the list of **Renderer Features**, you may have more than 1:

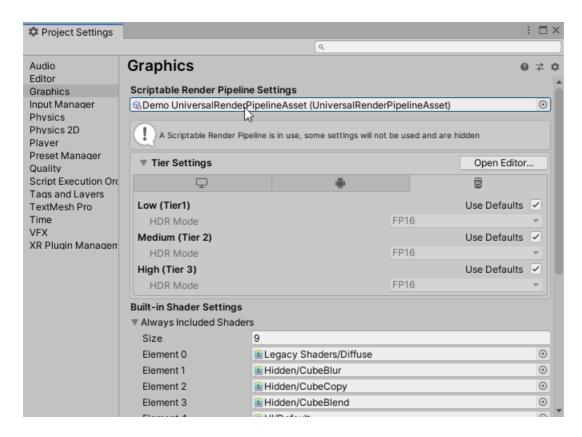




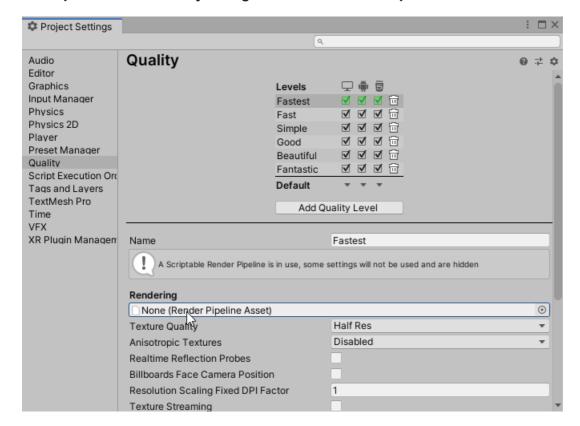
You may have multiple Forward Renderer Assets. In which case you have to add the Renderer Feature to all of them.

Finding the Forward Renderer Assets

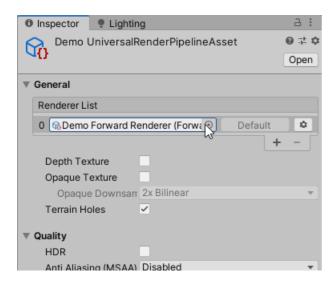
 You can find the Forward Renderer asset(s) you're using by finding the Render Pipeline Settings asset in Graphic Settings:



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



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**:



Limitations

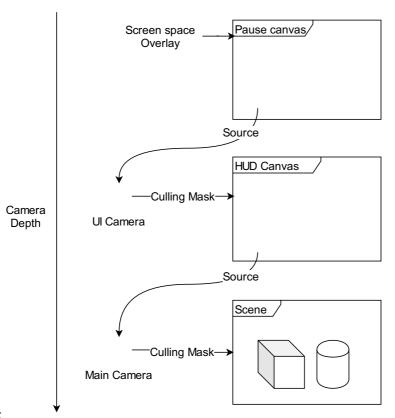
- URP does not yet support multiple cameras stacking on each other. Consequently, stacking multiple blur layers for Translucent Images is also not available. Unity does have this functionality planned.
- Some demo scene does not work with URP. There a demo scene dedicated for URP under Translucentlmage/Demo/UniversalRP, after you import the support package.

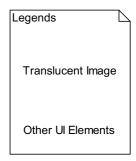
Blurring other UI elements

Sometimes, you not only want to blur the scene, but also other UI elements. A common use case for this is for pause menu, where the pause menu UIs would be shown on top of the game HUD.

Translucent Image supports this on Standard Render Pipeline. LWRP is not supported for this use case, as the pipeline does not support multiple stacking cameras

The setup





Here is a typical setup:

Example setup

And here a more detailed description of the components you'll need and their settings:

Canvas

- o Overlay Canvas (i.e. pause menu)
 - Layer: Ul
 - Render Mode: Screen space Overlay/Camera
 - Render Camera: Overlay Camera (optional)
- o UI Canvas (i.e. HUD)
 - Layer: UI
 - Render Mode: Screen space Camera
 - Render Camera: Ul Camera

Camera

- Overlay Camera (optional)
 - Clear Flags: Depth only
 - Culling Mask: UI
 - Depth: 3

UI Camera

Clear Flags: Depth only

Culling Mask: UI

■ Depth: 2

Main Camera

Clear Flags: <any>

Culling Mask: Everything but UI

Depth: 1

After you have the setup, add the Translucent Image Source component to *UI Camera* and *Main Camera*. Then:

- Assign the Translucent Images "Source" slot to the Source "below" them, like shown in the diagram
- Please note, Translucent Images that use different Sources should also use different Material.

Performance implication

You can add as many cameras and canvases as you like, and set them up similarly. 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 on top. In fact, both Windows 10 and macOS do this.

Windows 10 only use blur on the top-most UI

Why so complicated?

Many other blur solution you can find on the web can just blur whatever behind them. While this is convenient, it also very harmful for performance - each Image has to do their own blurring.

In Translucent Image, the blurring work is batched using Translucent Image Source(s). This massively reduces the amount of calculation the have to be done, especially when there's a lot of Uls.

The trade-off is when we want to blur other Translucent Images, we need to use extra "batches", which involve complex setup and more cost in performance.

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.

Note that this is not possible in LWRP/URP until Unity implements stacking Cameras there.

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 everything not too old.
- Android: There's 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: Apple A8 and later should hit 60FPS. A7 can hit 30FPS.

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

This usually due to one of the following:

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

Can I smoothly animate the blur level?

The strength property allows for mostly smooth change of blurriness, but not fully, there is still some abrupt jump that is noticeable when changing blurriness 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.lmage.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

UnityEngine.UI.Image.flexibleWidth

UnityEngine.UI.Image.minHeight

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.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

UnityEngine.UI.Graphic.m_OnDirtyLayoutCallback

UnityEngine.UI.Graphic.m OnDirtyVertsCallback

UnityEngine.UI.Graphic.m OnDirtyMaterialCallback

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()

Unity Engine. UI. Graphic. On Rect Transform Dimensions Change ()

UnityEngine.UI.Graphic.OnBeforeTransformParentChanged()

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()

 $\label{thm:constraint} \mbox{UnityEngine.MonoBehaviour.Invoke} (System. String, System. Single)$

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)

 $\label{lem:constraint} Unity Engine. Mono Behaviour. Stop Coroutine (System. Collections. I Enumerator)$

 $\label{thm:convergence} Unity Engine. Mono Behaviour. Stop Coroutine (Unity Engine. Coroutine)$

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>()

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)

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

UnityEngine.Component.BroadcastMessage(System.String)

Unity Engine. Component. Broadcast Message (System. String, Unity Engine. Send Message Options)

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

TYPE	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	

source

Source of blur for this image

Declaration

public TranslucentlmageSource source

Field Value

ТҮРЕ	DESCRIPTION
TranslucentlmageSource	

spriteBlending

Declaration

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

Field Value

TYPE	DESCRIPTION
System.Single	

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

ТҮРЕ	DESCRIPTION
System.Single	

Methods

ModifyMesh(Mesh)

Declaration

public virtual void ModifyMesh(Mesh mesh)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.Mesh	mesh	

ModifyMesh(VertexHelper)

Declaration

public virtual void ModifyMesh(VertexHelper vh)

Parameters

ТҮРЕ	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.Image.OnDisable()

OnEnable()

Declaration

protected override void OnEnable()

Overrides

UnityEngine.UI.lmage.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

UnityEngine.UI.ILayoutElement

UnityEngine.lCanvasRaycastFilter



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

[ExecuteInEditMode]

[RequireComponent(typeof(Camera))]

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

[HelpURL("http://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

ТҮРЕ	DESCRIPTION
System.Boolean	

Properties

BlurAlgorithmSelection

Declaration

public BlurAlgorithmType BlurAlgorithmSelection { get; set; }

Property Value

TYPE	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



ScalableBlur

ShaderId

TranslucentImageBlurRenderPass

TranslucentlmageBlurSource

Utilities

Interfaces

IBlurAlgorithm

Enums

BlurAlgorithmType

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	

Interface IBlurAlgorithm

Namespace: LeTai. As set. Translucent Image. Universal RP

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

Syntax

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

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)

Declaration

void Init(BlurConfig config)

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.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	

TYPE	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)

Declaration

public void Init(BlurConfig config)

Parameters

TYPE	NAME	DESCRIPTION
BlurConfig	config	

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[]	

Methods

Init(Int32)

Declaration

public static void Init(int stackDepth)

TYPE	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

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)

Unity Engine. Rendering. Universal. Scriptable Render Pass. Create Drawing Settings (Unity Engine. Rendering. Shader Tagld, and the property of the property

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)

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

 $\label{lem:condition} Unity Engine. Rendering. Universal. Scriptable Render Pass. color Attachments$

 $\label{lem:condition} Unity Engine. Rendering. Universal. Scriptable Render Pass. color Attachment$

UnityEngine.Rendering.Universal.ScriptableRenderPass.depthAttachment

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

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

Constructors

TranslucentImageBlurRenderPass()

Declaration

public TranslucentlmageBlurRenderPass()

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

TYPE	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()

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)

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Syntax

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

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

Unity Engine. Rendering. Universal. Scriptable Renderer Feature. 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()

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Syntax

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

Methods

SimplePingPong(Int32, Int32)

Declaration

public static int SimplePingPong(int t, int max)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	t	
System.Int32	max	

Returns

ТҮРЕ	DESCRIPTION
System.Int32	