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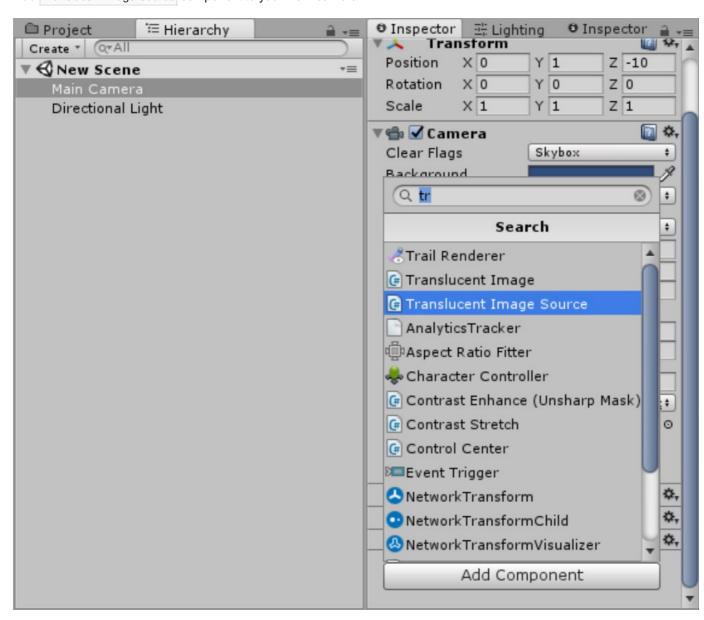
LeTai.Asset.TranslucentImage

TranslucentImage

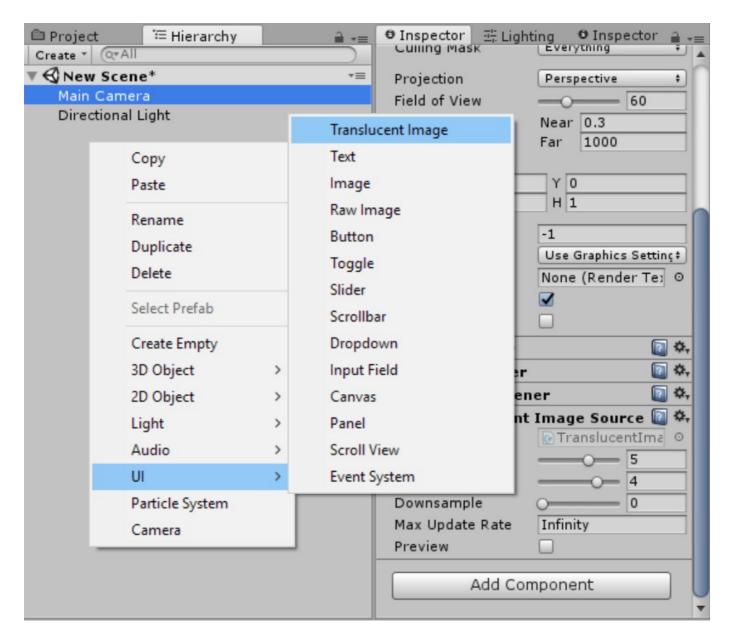
TranslucentImageSource

Getting Started

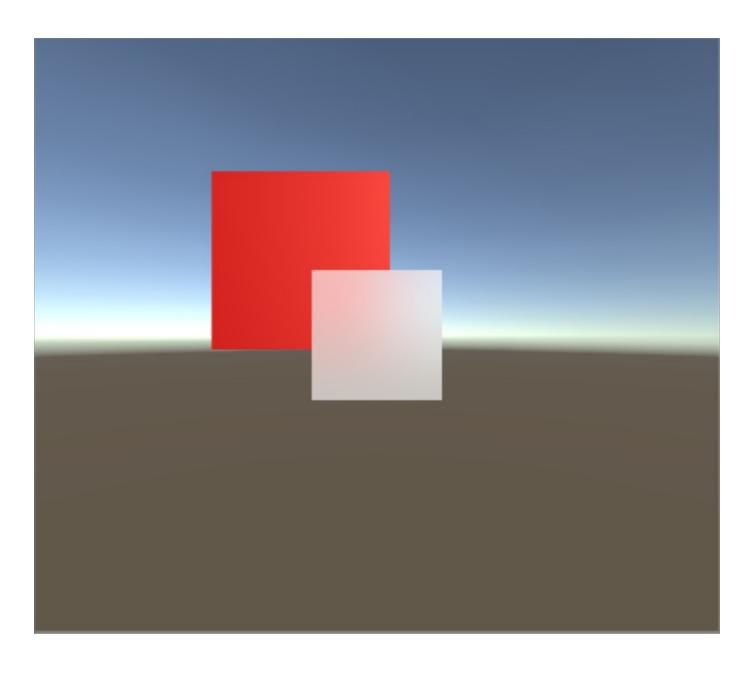
1. Add Translucent Image Source component to your main camera.



2. Create UI -> Translucent Image as you would with built-in UI.



3. That this!



Customize

□ Note

This package was designed to be scalable. All properies that was said below to affect performance actually do so very little

There are 2 components that form the effect, both with their own parameter that affect the look of the effect:

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.
 - Iteration: Increase blur quality and blurriness when it is increased.
 - **Downsample**: Decrease the resolution before processing to increase performance. Side effect include increase blurriness and flickering.

There are also other properties that are independant of mode:

• **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.

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

- Max Depth: Increase this property will:
 - Increase flickering when background moving
 - Increase blur level
 - o Improve performance
- Max Update Rate: How many time the effect update itself per 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 dynamically
 updating background like in a pause menu for example.
- Preview: preview the effect in full-screen without creating a Translucent Image

Translucent Image

- **Source Image**: The sprite to use for this image.
- Material: Multiple Translucent Image using the same material can only have different color, but they can batch dynamically to
 only take one draw call.

■ Warning

Material used here must use the shader UI/TranslucentImage

- Color, Raycast Target, Image Type: same as built-in Image.
- **Source**: Translucent Image Source component. This is where the image gets the blurred screen. It will automatically being 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 be blurred.

- **Vibrancy**: How colorful you want the background to be, 0 mean black and white, negative value will invert the color. This is great for enhancing the detail behind the image, or making death screen.
- 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.

Frequently Asked Questions

Will this asset works well on my device?

The asset should run on any device. Performance wise, it depend on your project, but here some general rule or thumb:

- PC/Mac/Console: Should run well on everything.
- Android: There's too many of them. Only way to know for sure is to test the demo on your target devices.
- IOS: Apple A8 and later should hit 60FPS. A7 can hit 30FPS.

Can I smoothly animate the blur level?

The strength property allow for some smoothness but not fully, no. If you just need to fade in and out, use the alpha value of the Color. You can also use Canvas Group as normal Images.

Can I blur other UI?

TL;DR: Kind of. See the demo.

Explanation

If the blur algorithm run once for each UI on the screen, it will get too slow very fast. In fact, if you use a Mac or Window 10 computer, you will notice the blur effect is disabled for windows that aren't in focus.

Therefore, the blurring is done once per camera. This give us much higher performance. However, every Translucentlmage share the same source will have the exact same background - which mean they will not "see" others below them.

Solution

If you need to blur Uls, for example, for a fully Ul games, this can be done by setting up another Camera and Canvas.

The setup:

- Main Camera: Render the scene but NOT Uls
- UI Camera:
 - o Render ONLY Uls.
 - · Clear flag set to "Depth only".
 - Should have higher Depth than the Main Camera.
 - o Add a TranslucentlmageSource here.
- · Overlay Canvas:
 - In Screen Space Overlay mode (Render on top of everything).
 - o This is where we put our TranslucentImage (TI for short).
 - These TIs have source set to UI Camera.
- Camera Canvas:
 - o In Screen Space Camera mode (Render Camera set to the UI Camera).
 - This is where we put all our normal Uls.

You can also have TIs in the *Camera Canvas*. Just add another TranslucentImageSource to the *Main Camera*, and set all the TIs in the *Camera Canvas* to that Source.

TL;DR: See the demo scene.

Have another question?



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

TranslucentI mage

Dynamic blur-behind UI element

Translucent Image Source

Common source of blur for Translucent Images.

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

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UnityEngine.UI.Image.CalculateLayoutInputHorizontal()

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UnityEngine.UI.Image.fillCenter

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UnityEngine.UI.Image.eventAlphaThreshold

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UnityEngine.UI.Image.mainTexture

UnityEngine.UI.Image.hasBorder

UnityEngine.UI.Image.pixelsPerUnit

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Unity Engine. UI. Image. min Width

UnityEngine.UI.Image.preferredWidth

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UnityEngine.UI.Graphic.materialForRendering

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

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: Le Tai. Asset. Translucent Image

Assembly: Assembly-CSharp.dll

Syntax

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)]

[Range(-ir, ir)]

public float brightness

Field Value

ТҮРЕ	DESCRIPTION
System.Single	

correctShader

Declaration

Shader correctShader

Field Value

ТҮРЕ	DESCRIPTION
UnityEngine.Shader	

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	

old Brightness

Declaration

float oldBrightness

Field Value

ТҮРЕ	DESCRIPTION
System.Single	

oldFlatten

Declaration

float oldFlatten

Field Value

ТҮРЕ	DESCRIPTION
System.Single	

oldVibrancy

Declaration

float oldVibrancy

Field Value

ТҮРЕ	DESCRIPTION
System.Single	

source

Source of blur for this image

Declaration

public TranslucentImageSource source

Field Value

ТҮРЕ	DESCRIPTION
TranslucentlmageSource	

spriteBlending

Declaration

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

Field Value

ТҮРЕ	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

Late Update()

Declaration

void LateUpdate()

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

Unity Engine. UI. Graphic. On Did Apply Animation Properties ()

OnDisable()

Declaration

protected override void OnDisable()

Overrides

UnityEngine.UI.MaskableGraphic.OnDisable()

OnEnable()

Declaration

protected override void OnEnable()

Overrides

UnityEngine.UI.MaskableGraphic.OnEnable()

PrepShader()

Declaration

void PrepShader()

Start()

Declaration

protected override void Start()

Overrides

UnityEngine.EventSystems.UlBehaviour.Start()

SyncMaterialProperty(Int32, ref Single, ref Single)

Sync material property with instance

Declaration

void SyncMaterialProperty(int propld, ref float value, ref float oldValue)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int32	propld	material property id
System.Single	value	
System.Single	oldValue	

Update()

Declaration

void Update()

Implements

UnityEngine.UI.ICanvasElement

UnityEngine.UI.IClippable

UnityEngine.UI.IMaskable

UnityEngine.UI.IMaterialModifier

 $\label{lem:continuous} Unity Engine. I Serialization Callback Receiver$

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.Invoke(System.String, System.Single)

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

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

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: Le Tai. Asset. Translucent Image

Assembly: Assembly-CSharp.dll

Syntax

[ExecuteInEditMode]

[RequireComponent(typeof(Camera))]

[AddComponentMenu("Image Effects/Tai Le Assets/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

blurRegion

Declaration

[SerializeField]
Rect blurRegion

Field Value

ТҮРЕ	DESCRIPTION
UnityEngine.Rect	

camera

Declaration

Camera camera

Field Value

ТҮРЕ	DESCRIPTION
UnityEngine.Camera	

downsample

Declaration

[SerializeField]		
int downsample		
int downsample		

Field Value

ТУРЕ	DESCRIPTION
System.Int32	

iteration

Declaration

[SerializeField]			
int iteration			

Field Value

ТУРЕ	DESCRIPTION
System.Int32	

lastBlurRegion

Declaration

Rect lastBlurRegion

Field Value

ТҮРЕ	DESCRIPTION
UnityEngine.Rect	

last Downsample

Declaration

[SerializeField]
int lastDownsample

Field Value

ТҮРЕ	DESCRIPTION
System.Int32	

last Up date

Declaration

float lastUpdate		

Field Value

ТҮРЕ	DESCRIPTION
System.Single	

TYPE	DESCRI	PTION	
material			
Declaration			
Material material			
Field Value			
ТҮРЕ	YPE DESCRIPTION		
UnityEngine.Material			
maxDepth			
Declaration			
[SerializeField] int maxDepth			
Field Value			
ТҮРЕ	DESCRIPTION		
System.Int32			
maxUpdateRate			
Maximum number of times to update the blurred image each seco	ond		
Declaration			
public float maxUpdateRate			
Field Value			
TYPE DESCRIPTION		PTION	
System.Single			
preview			
Render the blurred result to the render target			
Declaration			
[Tooltip("Preview the effect on entire screen")] public bool preview			
Field Value			
ТҰРЕ	DES	CRIPTION	
System.Boolean			
previewMaterial			
Declaration			

Material previewMaterial			
Field Value			
ТУРЕ		DESCR	IPTION
UnityEngine.Material			
shader			
Declaration			
Shader shader			
Field Value			
ТҮРЕ		DESCRI	PTION
UnityEngine.Shader			
size			
Declaration			
[SerializeField] float size			
Field Value			
ТҮРЕ	DESCRI	CRIPTION	
System.Single			
strength			
Declaration			
[SerializeField] float strength			
Field Value			
TYPE DESCRIPTION			
System.Single			
Properties			
BlurredScreen			
Result of the image effect. Translucent Image use this as their conte	ent (read-	only)	
Declaration			
public RenderTexture BlurredScreen { get; }			
Property Value			
ТҮРЕ			DESCRIPTION
UnityEngine.RenderTexture			

BlurRegion

Define the rectangular area on screen that will be blurred.

Declaration

oublic Rect BlurRegion { get; set; }			
--------------------------------------	--	--	--

Property Value

ТҮРЕ	DESCRIPTION
UnityEngine.Rect	Between 0 and 1

Cam

The Camera attached to the same GameObject. Cached in field 'camera'

Declaration

```
Camera Cam
{
}
```

Property Value

ТҮРЕ	DESCRIPTION
UnityEngine.Camera	

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; }
```

Property Value

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

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

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

MinUpdateCycle

Minimum time in second to wait before refresh the blurred image. If maxUpdateRate non-positive then just stop updating

Declaration

```
float MinUpdateCycle
{
}
```

Property Value

ТҮРЕ	DESCRIPTION
System.Single	

ScreenSize

A small number base on the smaller dimension of the camera render target. Used to retain the blur amount across screen size

Declaration

```
float ScreenSize
{
}
```

Property Value

ТҮРЕ	DESCRIPTION
System.Single	

Size

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

Declaration

```
public float Size { get; set; }
```

Property Value

ТҮРЕ	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

CreateNewBlurredScreen()

Declaration

protected virtual void CreateNewBlurredScreen()

OnRenderImage(RenderTexture, RenderTexture)

Declaration

protected virtual void OnRenderlmage(RenderTexture source, RenderTexture destination)

Parameters

TYPE	NAME	DESCRIPTION
UnityEngine.RenderTexture	source	
UnityEngine.RenderTexture	destination	

ProgressiveBlur(RenderTexture)

Declaration

protected virtual void ProgressiveBlur(RenderTexture sourceRt)

Parameters

ТҮРЕ	NAME	DESCRIPTION
UnityEngine.RenderTexture	sourceRt	

ProgressiveResampling(Int32, ref RenderTexture)

Resize the source texture then run it through a shader before assign to target texure

Declaration

protected virtual void ProgressiveResampling(int level, ref RenderTexture target)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	level	Resampling depth
UnityEngine.RenderTexture	target	

SetAdvancedFieldFromSimple()

Calculate size and iteration from strength

Declaration

protected virtual void SetAdvancedFieldFromSimple()

Start()

Declaration

protected virtual void Start()