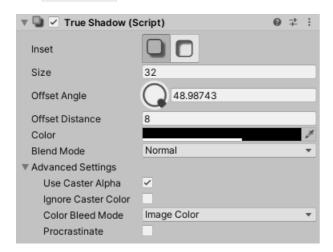
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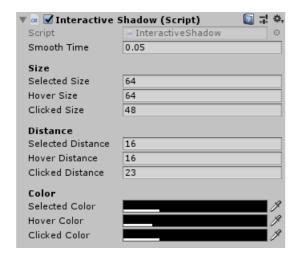
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Getting Started

1. Add True Shadow to your UI element.

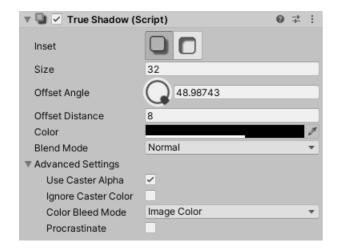


- 2. Tune it to your liking.
- 3. Optionally add Interactive Shadow to modify shadow properties based on user interaction.



Customize

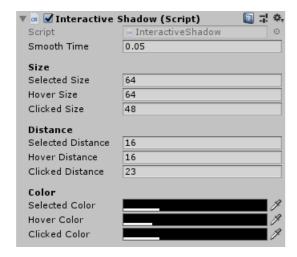
True Shadow



- Inset: Choose between inner and outer shadow
- Size: Size of the shadow
- Offset Angle: Direction to offset the shadow toward
- Offset Distance: How far to offset the shadow
- Color: Tint the shadow
- BlendMode: Blend mode of the shadow
- Use Caster Alpha: Whether or not the alpha channel of the Graphic affect the shadow
- **Ignore Caster Color**: When on, the color of the shadow will be what specified in the Color property. When off, the shadow color will be based on the color of the shadow caster Graphic.
- **Color Bleed Mode**: How to obtain the color of the area outside of the source image. Automatically set based on Blend Mode. You should only change this setting if you are using some very custom UI that require it

Interactive Shadow

The Interactive Shadow component allow you to quickly create shadows that can react to user interaction, such as by mouse or game controller.



When created, the component will automatically choose sane defaults based on the settings on your True Shadow component. You can also Reset the component to repopulate its settings based on the current True Shadow settings.

The component supports 3 states: Hovered, Selected and Clicked. These states work the same as the builtin Selectable, such as Button.

Scripting Considerations

True Shadow display shadows by creating hidden GameObject positioned right after the caster UI element in the hierarchy. This is so that the shadow is rendered right above the UI element.

If you are using script that interact with the hierarchy of the shadow casting UIs in some way, you should keep these hidden object in mind. For example, calling transform.childCount on the parent will also count the shadow object.

If you spawn shadow casting UIs at runtime, you must not assume the amount of children will be equal to the amount you instantiated. If you instantiate UIs in a loop, you must keep these hidden objects in mind when calculating the instantiated UIs siblingIndex.

Generally, it is not a good idea to use siblingIndex/transform.GetChild() to reference objects. Better alternative are to assign the elements in the inspector, or to use more specific API such as FindObjectOfType, GetComponentInChildren.

Integration with custom UI types

Make sure shadow update

True Shadow reuse the shadow of identical UI elements. It tell whether 2 UI elements are the same by calculating a hash from their properties.

If some properties of your custom UI type affect the look of the shadow caster, changes to them will not be reflected in the shadow by default.

The fastest way to solve this is to disable the shadow cache for these elements. However, this will be slower and increase graphic memory consumption, potentially by a lot.

To help True Shadow tell custom UI type instances from each others, set the CustomHash property. Here is an example for the builtin Text type:

```
[ExecuteAlways]
[RequireComponent(typeof(TrueShadow))]
class TextHashProvider: MonoBehaviour, ITrueShadowCustomHashProvider
    TrueShadow shadow;
    Text text;
    void OnEnable()
        shadow = GetComponent<TrueShadow>();
        text = GetComponent<Text>();
    }
    void DoThisWhenTextPropertiesIsChanged()
        shadow.CustomHash = HashUtils.CombineHashCodes(
            commonHash,
            text.text.GetHashCode(),
            text.font.GetHashCode(),
            (int)text.alignment
        );
    }
}
```

Note that not all properties of the Text need to be included in the hash. If the properties affect the size of the final UI mesh, True Shadow can detect it automatically.

Use custom vertex data and material properties when rendering shadow

When rendering shadow, True Shadow copy the mesh, vertex data, and material properties from the shadow caster. This will result in the correct shadow in most cases.

If some of your vertex data or material properties depend on rendering parameters, you may need to provide the appropriated values to the True Shadow instance. Do this by implementing the appropriated interface(s) on a Component attached to the same GameObject as the True Shadow instance.

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