

# UBindr Tutorial 1

*UBindr allows you to publish data from your C# code to the Unity UI with minimal to no code changes. It supports two way binding, so that changes made by the user are passed back to the C# code. It fills some of the same need that Angular, Knockout or React fills for Web applications. It makes building UIs easier and leaves the code cleaner.*

[Overview](#)

[Tutorial 1](#)

[Tutorial 2](#)

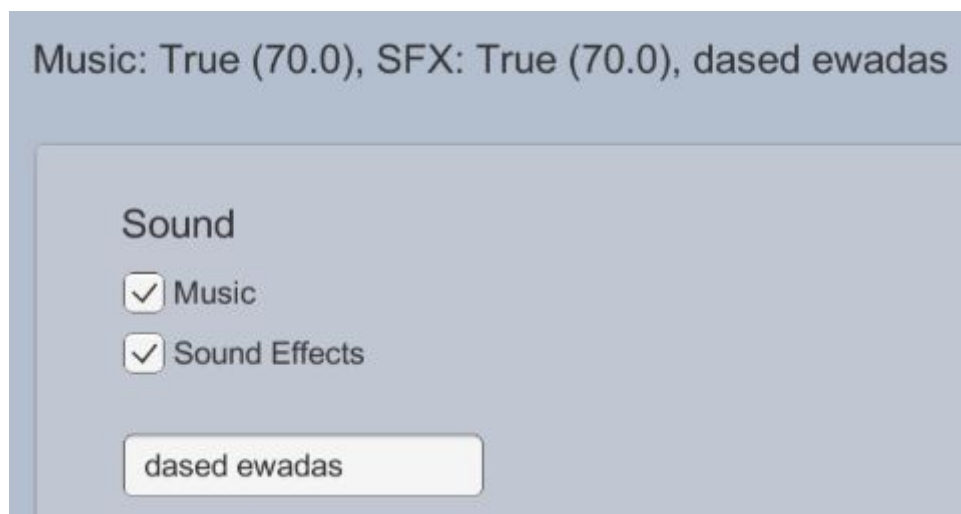
[Tutorial 3](#)

[Tutorial Movie](#)

## The Simplest Of Bindings

In this tutorial, we'll demonstrate how UBindr can be used to create a GUI that looks like the picture below and uses bindings to connect the data from the model to the gui and back again (Two Way binding).

(This Tutorial assumes that you already know how to create panels and other GUI components)



Create a project

Create a scene

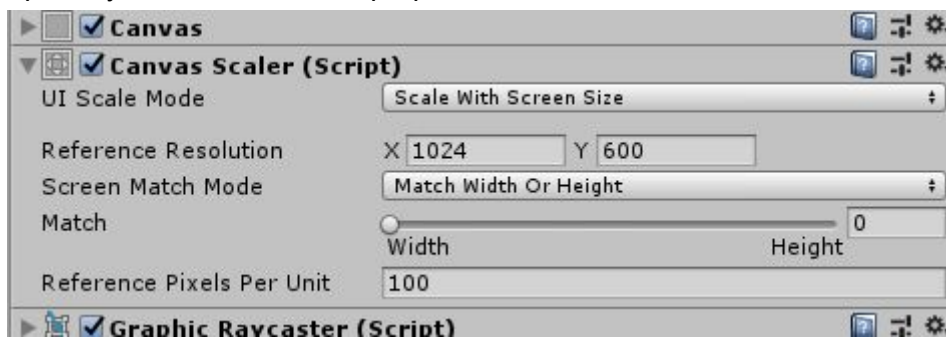
Include the UBindr Free or the UBinder Pro Asset.

## Create a Panel and Setup the Camera

- Create a Panel (Right Click in the scene hierarchy panel and select UI | Panel).

At this point a Canvas will be created, let's make the canvas scale with the screen size

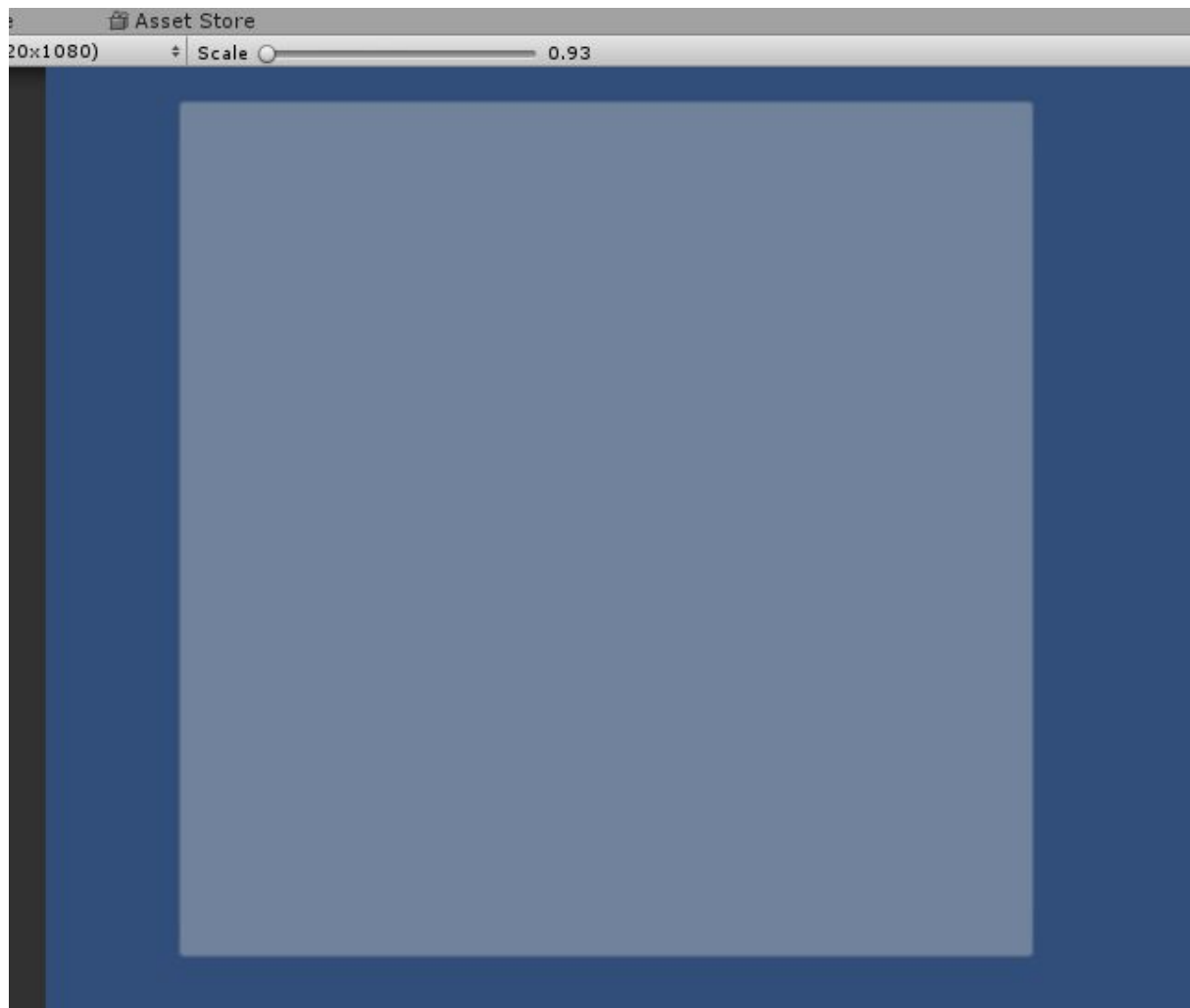
- Select the Canvas component (it's located at the root of your hierarchy)
- Update your Canvas Scaler properties to look like this;



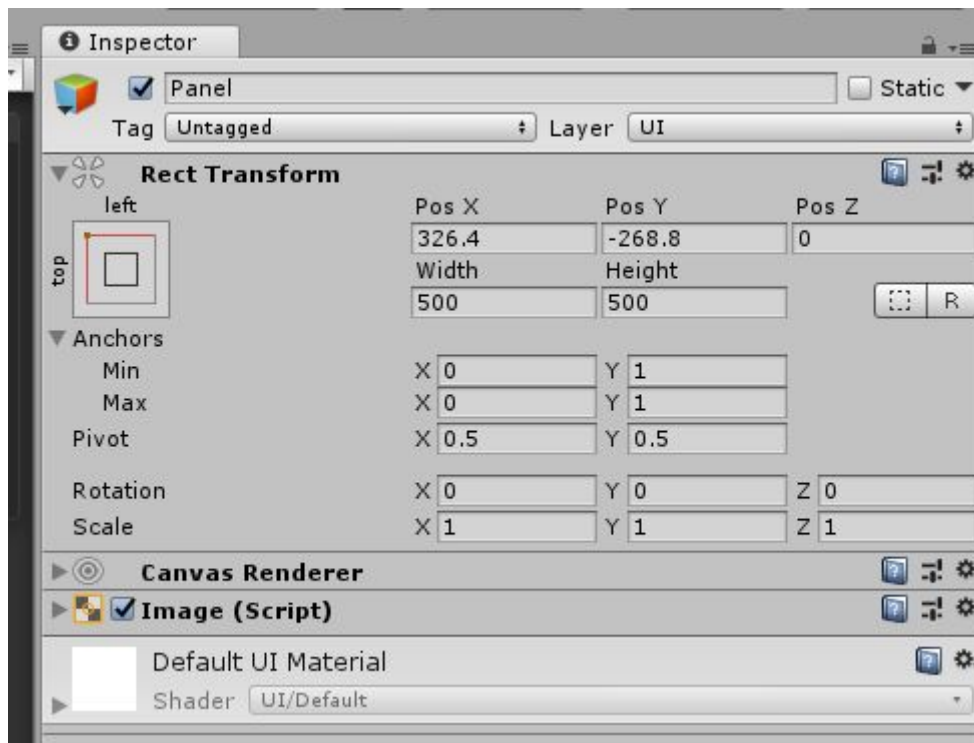
Now let's get back to the panel

- Select the Panel you previously created
- Make it about 500x500
- Name it "Settings Panel"
- Place it close to the top left corner
- Anchor it to the top left corner

Gameview should look like this something like this;



The properties for the panel something like this;

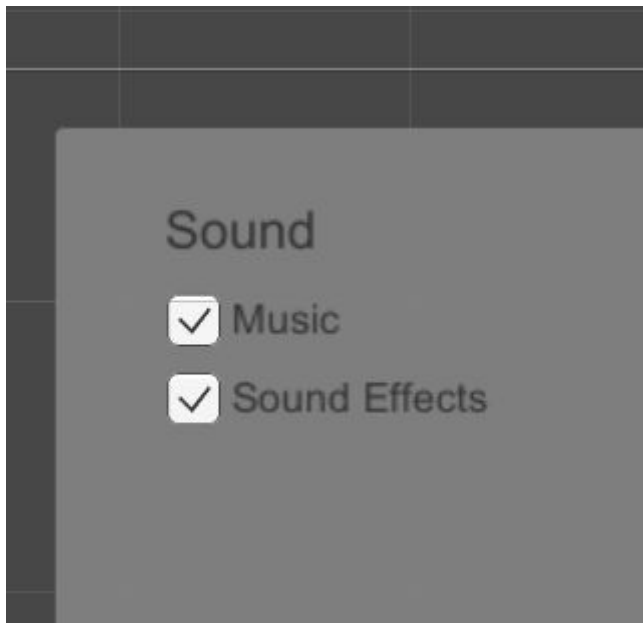


- Add a Text component
- Change the font size to 18 and the text to Sound
- Add a Toggle Component,
  - name it Music Toggle
  - change the label to Music
- Add another Toggle Component
  - name it Sound Effects Toggle
  - change the label to Sound Effects
- Make sure these components are childed to the panel
- Make sure these components are placed in an aesteticly pleasing manner

Your Hierarchy should look like this;

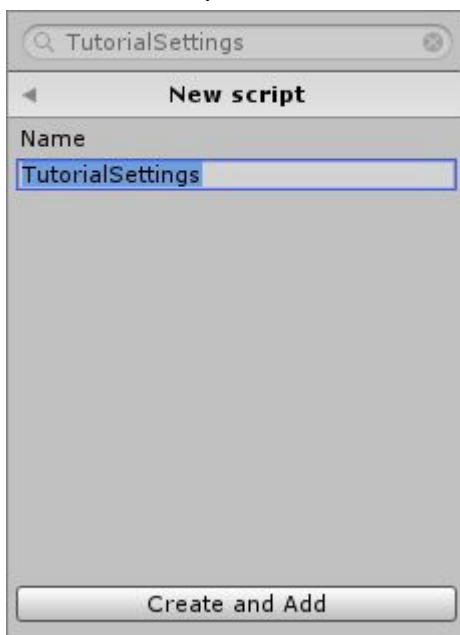


And your Scene View like this;



## Create the model

Add a new component called "TutorialSettings" to your Canvas game object;

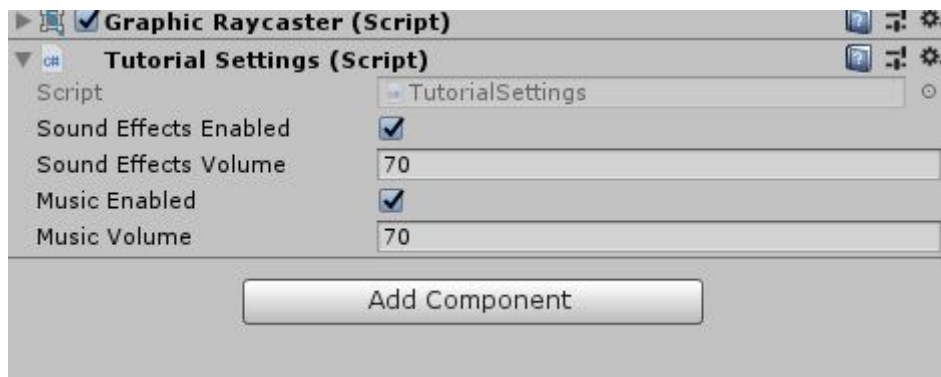


- Edit the script to look like this;  

```
public class TutorialSettings : MonoBehaviour
{
    public bool soundEffectsEnabled = true;
    public float soundEffectsVolume = 70;

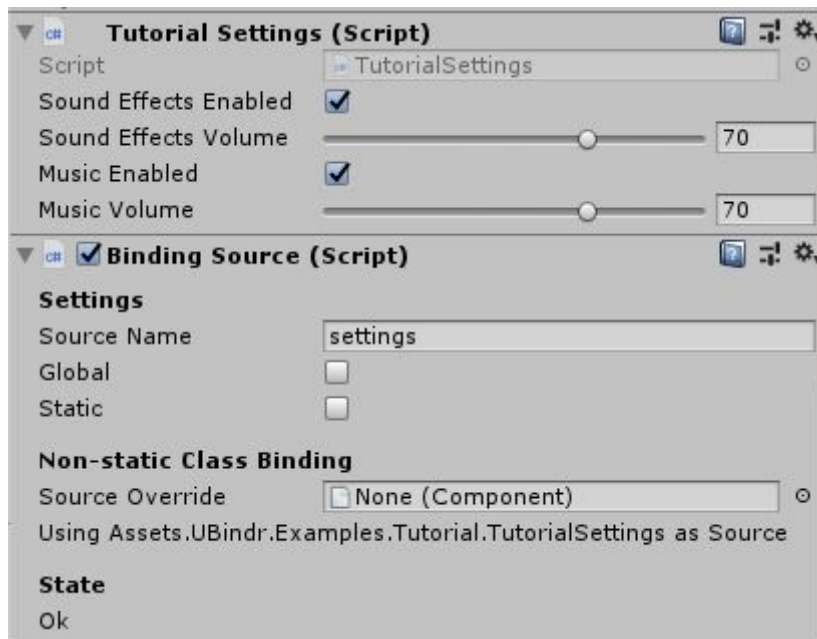
    public bool musicEnabled = true;
    public float musicVolume = 70;
}
```

Your canvas properties should not look like this;



Now we'll make the Settings available to the UBindr Bindings.

- Select the canvas
- Add a Binding Source component
- Give it the name "settings"
- Leave everything else as is

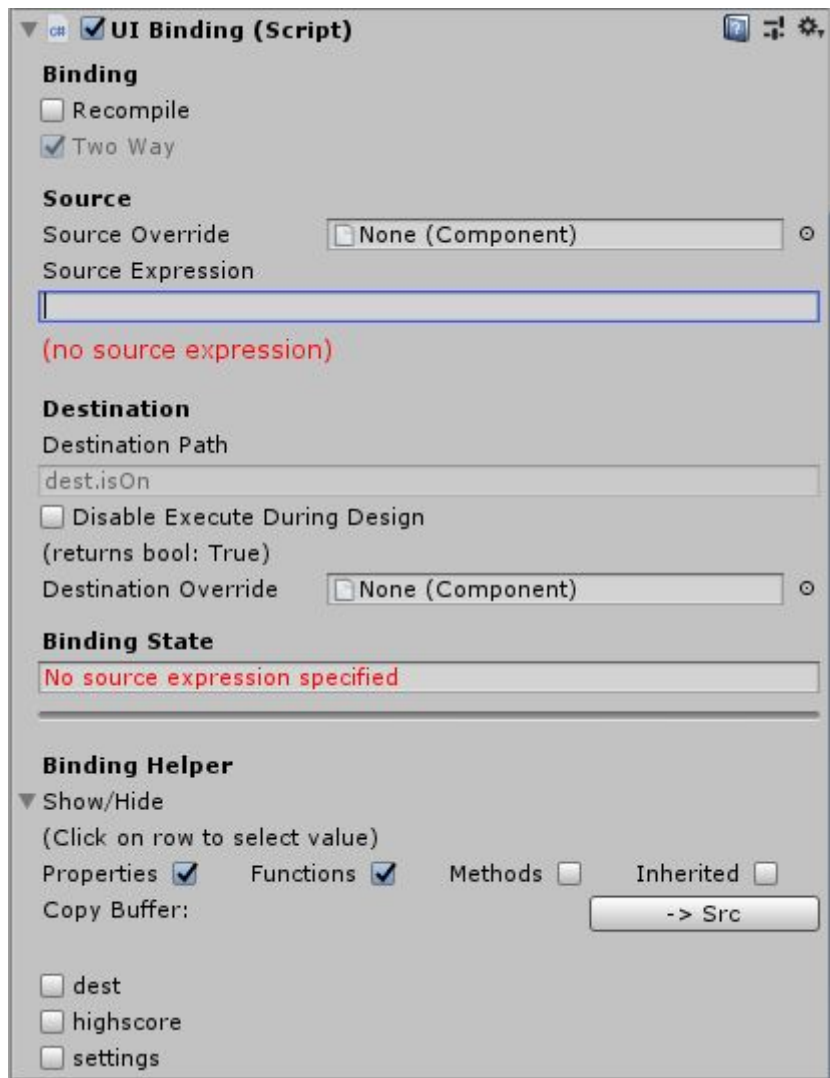


Any binding that is a child or grandchild of the Canvas will now see the settings component and be able to bind to it - using the name "settings".

## Add the First Binding

- Select the "Music Toggle" toggle in the scene view
- Add a "UI Binding" component (not any other kind of Binding, specifically a UI Binding)

It'll look really angry at first, like this;



You'll notice how the Destination Path is pre-populated and disabled. This is because the UI Binding knows how to connect to a Text Component. In fact, the UI component knows how to connect to the following components;

Regular Unity UI Components

- Toggle
- Dropdown
- InputField
- Text
- Slider

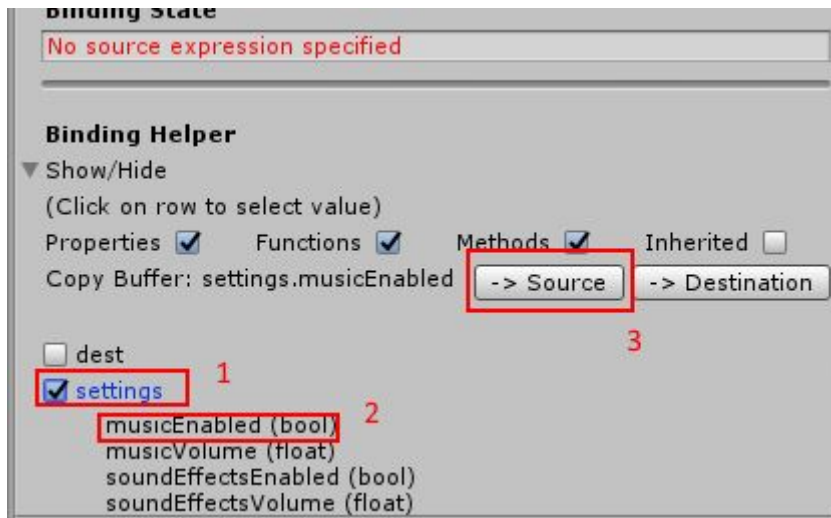
Text Mesh Pro UI Components

- TextMeshProUGUI
- TMP\_InputField
- TMP\_Dropdown

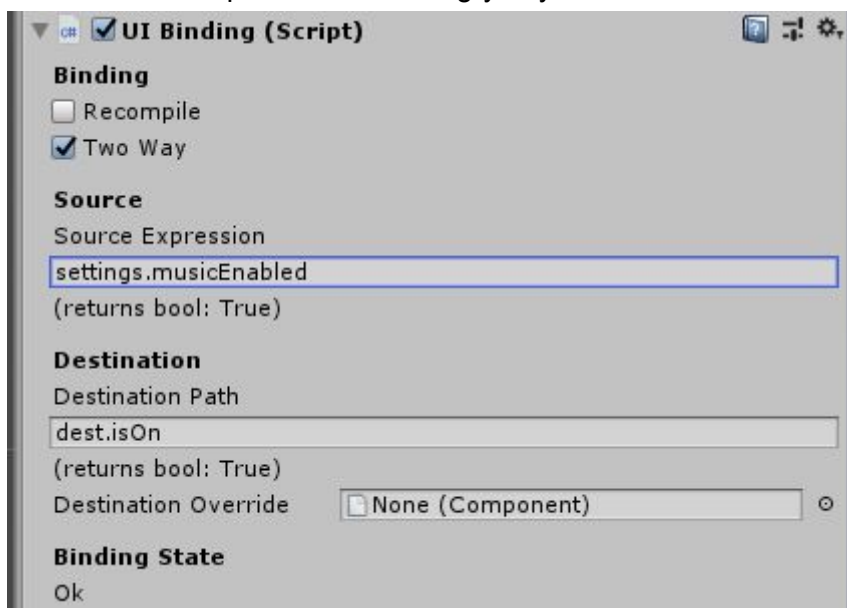
It automatically enables “Two Way” binding, all we have to do is hook up the source to our model;

Rev 1.0. For support contact [mattias.fagerlund@carretera.se](mailto:mattias.fagerlund@carretera.se).

- Make sure you've selected the Music Toggle
- Scroll to the UI Binding that you just created
- In the Binding Helper Region, Click the "settings" checkbox
- Click the musicEnabled (boolean) label (it's really a button)
- Click the -> Source button



- Make sure you now have the text settings.musicEnabled in the Source Expression field and the component isn't so angry anymore



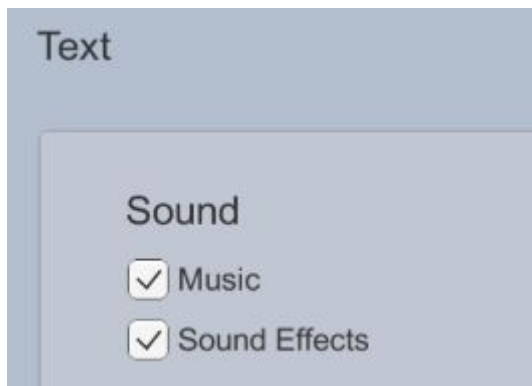
That's it! First binding done! If you run the game and click the "Music" Toggle, you should find that the Settings component is updated as well.

## Some Feedback

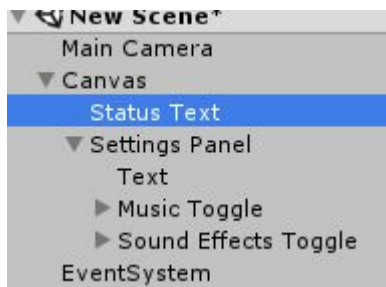
Looking at the Settings component to verify that everything is working quickly becomes tiresome. So we'll add some feedback instead.



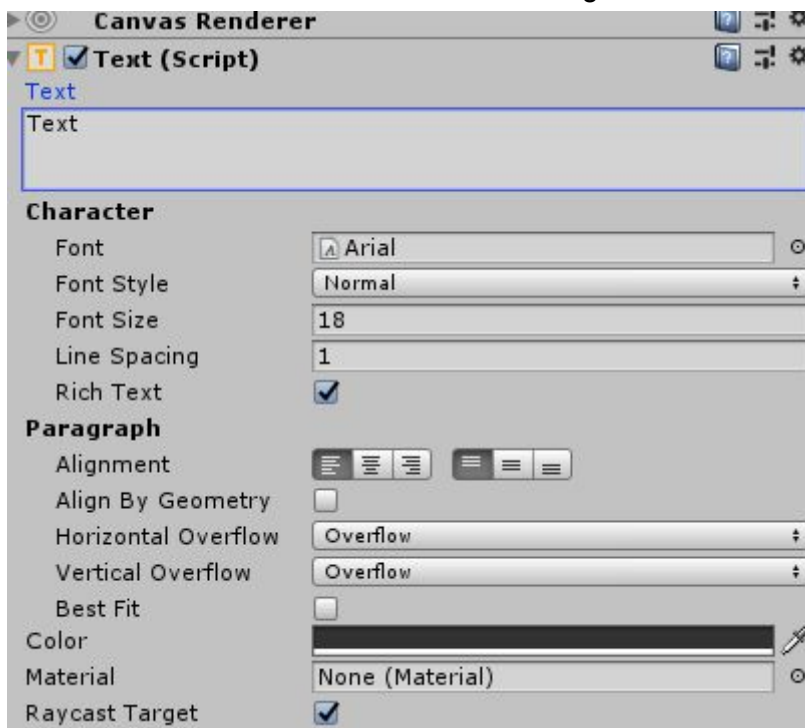
- Add a new Text UI Component above the panel we've just created



- Rename it to Status Text

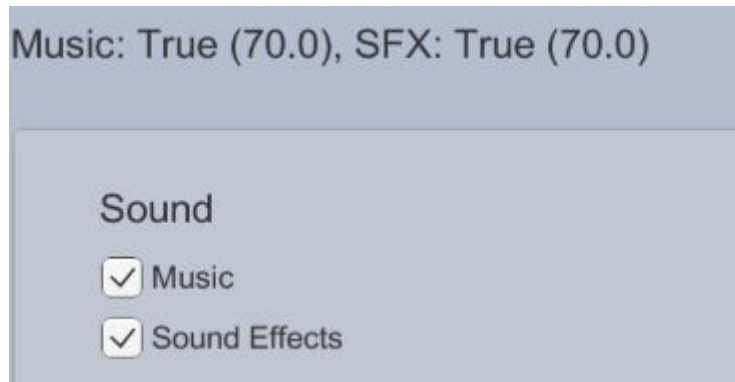


- Make sure it will overflow if the text is too long

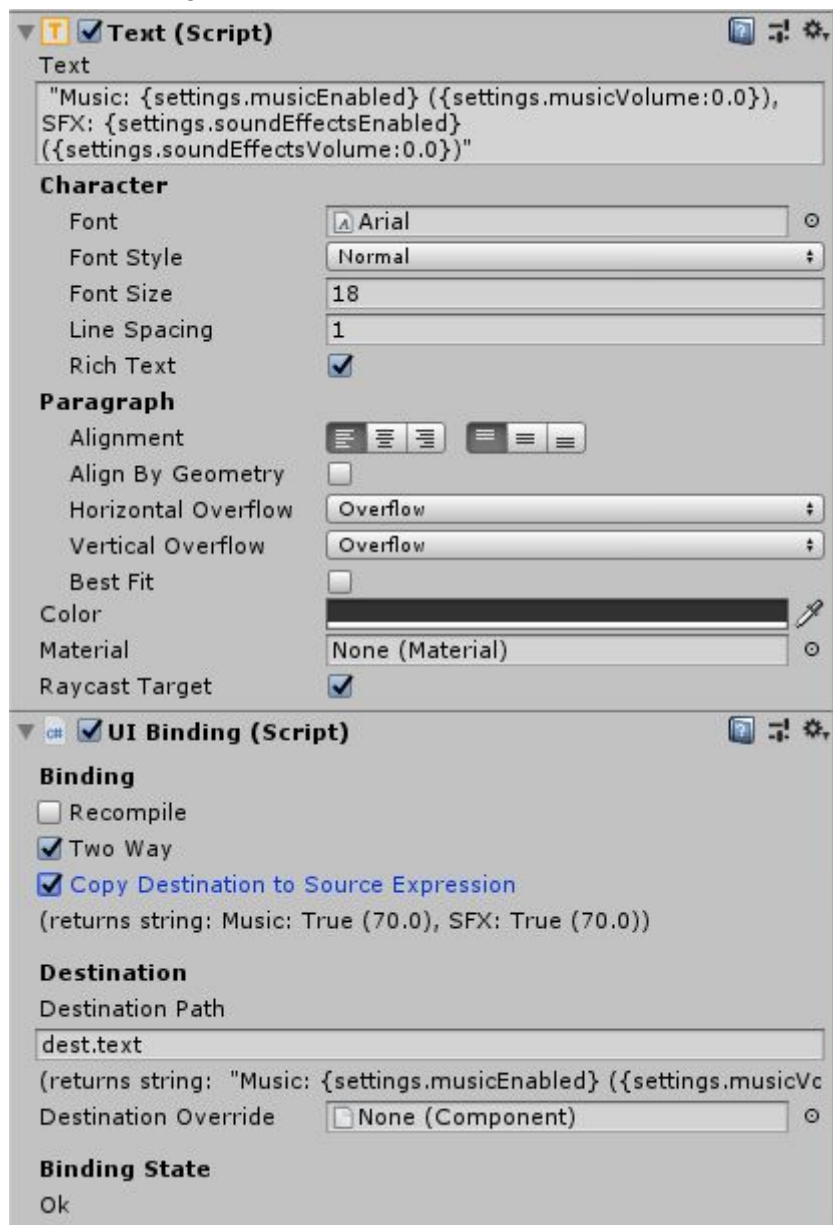


- Change the text to "Music: {settings.musicEnabled} ({settings.musicVolume:0.0}), SFX: {settings.soundEffectsEnabled} ({settings.soundEffectsVolume:0.0})" (**make sure to include the quotation marks**)
- Add a UI Binding below the text component

If you got all that correct, the UI Binding should Bind to the Text component above, and it will already know what Source Expression to use, the one that's present in the text field. So if you run the game, it should look something like this;



The UI Binding should look like this;



## Hook up the Second One

Hook up the Sound Effects Toggle to the soundEffects field on the settings component. This should be easy enough, check “Add the First Binding” above if you get stuck.

## Add a String Input Field

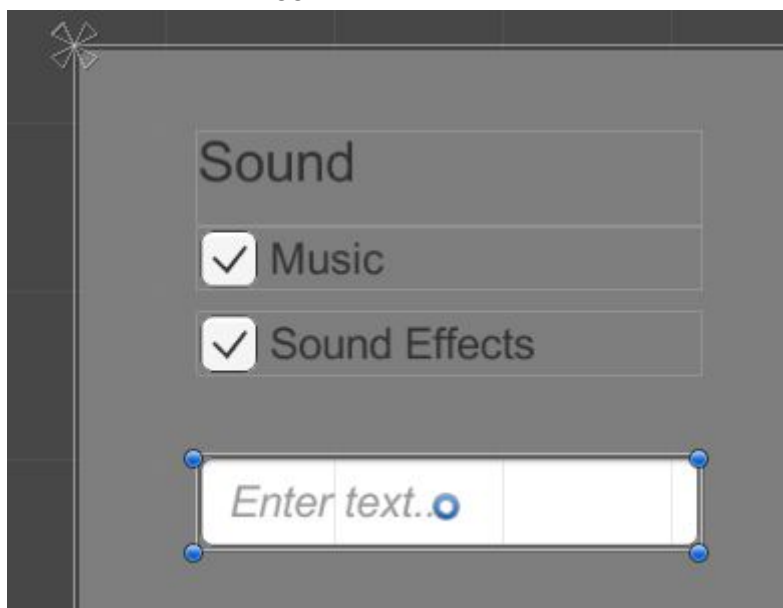
- Edit the Tutorial Settings class
- Add a string field called “message”
- It should now look like this;

```
public class TutorialSettings : MonoBehaviour
{
    public bool soundEffectsEnabled = true;
    public float soundEffectsVolume = 70;

    public bool musicEnabled = true;
    public float musicVolume = 70;

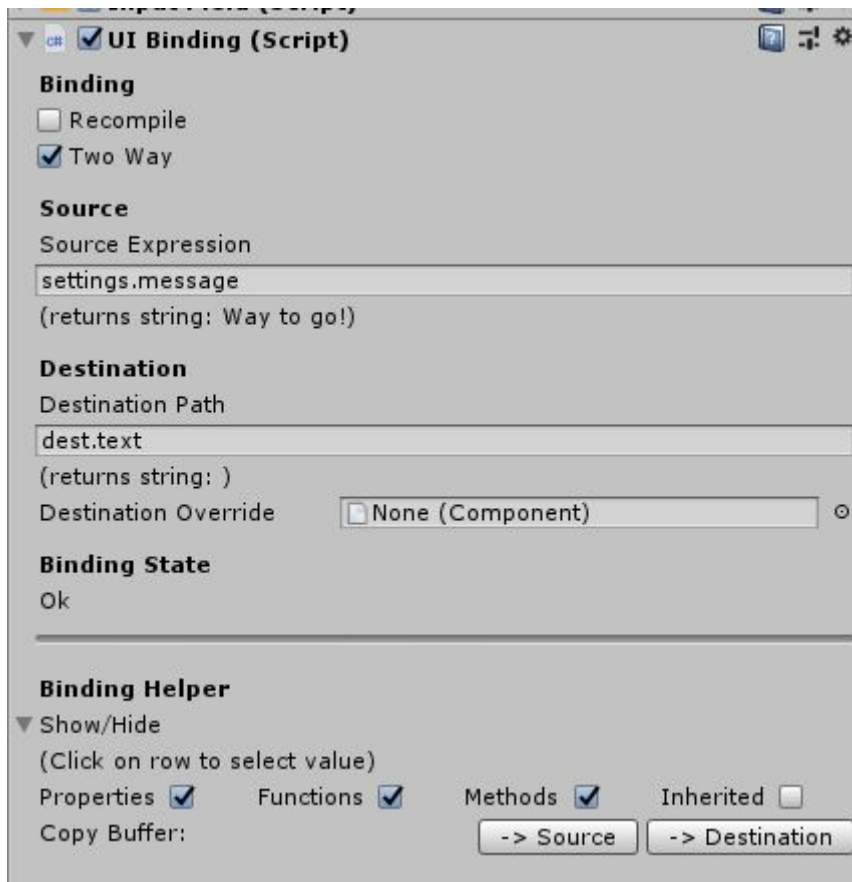
    public string message = "Way to go!";
}
```

- Create an UI Input Field Component
- Place it under the Toggles



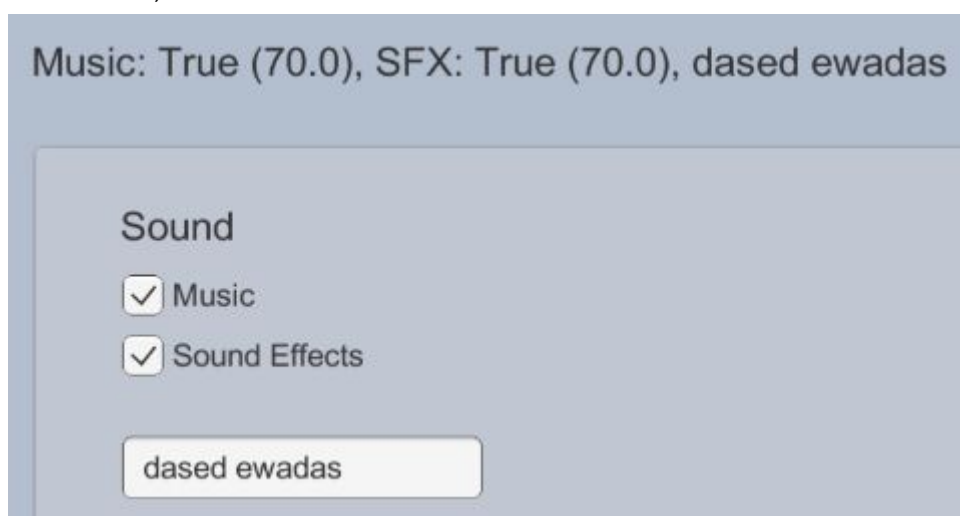
- Change the name to Message InputField
- Add a UI Binding

- Bind it to settings.message by using the Binding Helper



- Edit the Status Text Component to contain the text "Music: {settings.musicEnabled} ({settings.musicVolume:0.0}), SFX: {settings.soundEffectsEnabled} ({settings.soundEffectsVolume:0.0}), {settings.message}"

When you run the program, whatever you enter into the InputField will also be shown in the Status Text;



*That's it for UBindr Tutorial 1. For [Tutorial 2](#), we'll hook up a slider. You may already be able to guess how that's done. Keep the code from this tutorial, because Tutorial 2 will build on what we created here.*