

Scriptable Object Architecture Pattern

User Guide Version 3.1.0



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What is SOAP?

First of all, thank you for purchasing Soap ©. Soap was made to simplify game development. It aims to be easy to understand and to use, making it useful to both junior and senior game developers.

Soap leverages the power of **ScriptableObjects** which are native objects from the Unity Engine, to create a set of tools that enables you to build your game in a simple, modular and reusable manner.

ScriptableObjects are assets that can contain code. They can be referenced by other assets and are accessible at runtime and authoring time. ScriptableObjects are commonly used only for data storage, however they can do much more. Soap builds on top of them to exploit their full potential.

If you want to know more about this idea, I strongly suggest the talk of Ryan Hipple.

Soap was created mostly while developing casual games. Because of the nature of these games, Soap focuses on **speed** and **simplicity**. Nevertheless, Soap is great at forcing you to decouple your code (avoiding dependencies) and helping you to create modular and reusable systems. Therefore, it can be used in any type of games, simple or complex, small or big.

The package contains a small set of **example scenes** to quickly show **how to use** this framework. Each scene has its own specific documentation. On top of this, there are **6 step-by-step tutorial videos** to help you to create a Roguelike game with Soap: https://www.youtube.com/@obviousgame/

Why use SOAP?

1. Solve dependencies through the editor

By utilizing scriptable objects at its core, it prevents your code from becoming coupled (spaghetti code). This is especially true in the casual mobile market for several reasons:

- Many features are enabled or disabled through independent A/B
 Tests. This can lead to hardcoded or messy code within the core of our
 game. Having these features 'hooked' into an independent
 architecture makes it easy to add, remove, or toggle them on and off.
- Soap enables you to reuse features more easily. By using Soap, you
 can create features as 'drag and drop,' which can be a huge time
 saver in the long run for elements that don't change much across
 games (like meta features, ability systems, etc.).

2. Increase Development Speed

- Avoid creating new classes for straightforward behaviors.
- Directly access key variables using a simple reference.
- Modify global variables from the editor or within the code.
- Maintain persistent data across scenes or play sessions.
- Effortlessly debug at runtime.

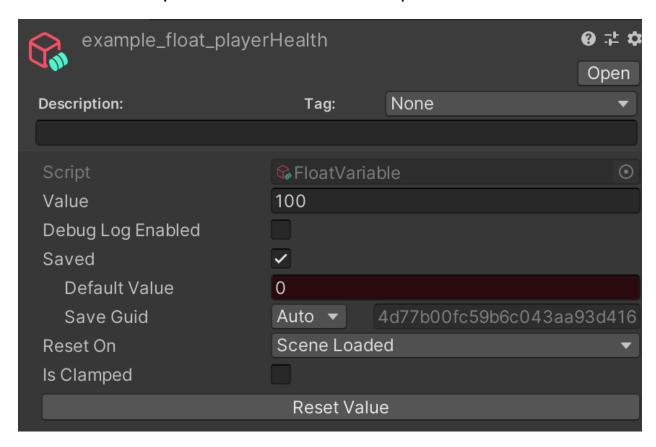
3. Code Efficiency / Clarity

- Subscribe to what you need and have each class handle itself.
- Avoid useless managers.
- Reduce code complexity (by preventing spaghetti code)
- Performant

Finally, because it's **fun**. Once you start developing with Soap, you might realize that the workflow is more enjoyable. It is not for everyone, but people who like this kind of workflow will love Soap.

Scriptable Variables

A Scriptable Variable (SV) is a scriptable object of a specific type containing a value and other parameters. Here is an example of a FloatVariable:



Let's go through its properties, starting from the top:

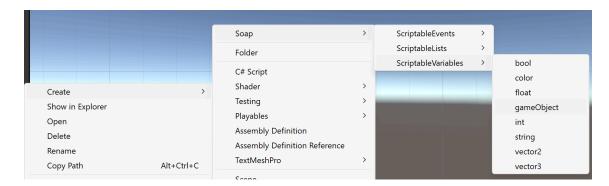
- Description: Add/edit an optional description to your SV
- Category: similar to a tag. Makes it easier to filter in the Soap Wizard.
- <u>Value</u>: the current value of the variable. Can be changed in inspector, at runtime, by code or in unity events. Changing the value will trigger an event "OnValueChanged" that can be registered to by code. See examples for practical usage.
- <u>Previous Value:</u> the previous value of the variable. Accessible only via code. (not visible in the inspector)
- <u>Debug Log Enabled</u>: if true, will log in the console whenever this value is changed.

- <u>Saved</u>: If true, the value of the variable will be saved to Player Prefs when it changes. (See 5_Save_Example scene & documentation).
 - <u>Default Value</u>: Default value used the first time you load from PlayerPrefs.
 - <u>Save Guid</u>: by default, a unique Guid is created for the variable.
 In case you want to override it, change this setting to Manual and assign your own custom Guid.
- Reset On: when is this variable reset (or loaded, if saved)?
 - Scene Loaded: whenever a scene is loaded. Use this if you want the variable to be reset if it is only used in a single scene. Note: does not reset when loading additive scenes.
 - Application Start: reset once when the game starts. Useful if you
 want changes made to the variable to persist across scenes.
- <u>Is Clamped:</u> only for FloatVariable and IntVariable, gives you the ability to clamp its value. (See 1_ScriptableVariables Documentation).

In the Editor, non-saved Scriptable Variables automatically revert to their initial values (the values shown in the inspector before entering play mode) upon exiting play mode.

Additionally, there is a convenient utility button labeled 'Reset to Initial Value.' This allows you to quickly reset the variable to its initial value from the inspector.

To create a new variable, simply right-click in the project window and locate the Scriptable Variable you need: Create/Soap/Scriptable Variables/

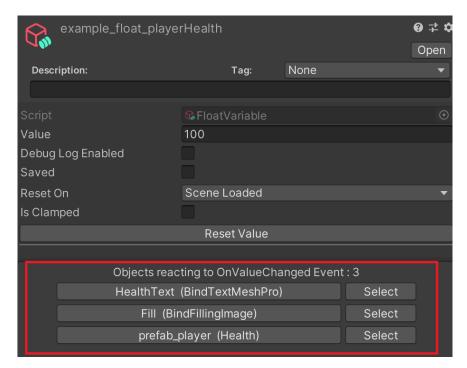


Alternatively, you can expose a reference to a Scriptable Variable directly in your class. Then, by clicking on the 'Create' button in the inspector, you can generate a new instance of that Scriptable Variable in the folder currently selected in the project window (you can change folder path in the settings). For example:

```
public class MyCustomClass : MonoBehaviour
{
     [SerializeField] private FloatVariable _floatVariable;
}
```



When you are in play mode, the objects (and their components) that have registered for the **OnValueChanged** Event of a Scriptable Variable become visible in the inspector



As seen in the screenshot above, three objects are registered to this variable. Examining the first element that responds to this variable, we find the GameObject named 'HealthText' in the hierarchy, specifically its component 'BindTextMeshPro.'

By clicking on the first button, the object is pinged in the hierarchy. Clicking on the 'Select' button will select the object in the hierarchy. This visual debugging is useful for tracking what responds to the changes of your variable.

For more detailed explanation and examples of Scriptable Variables, please refer to the example scene '1_Scriptable Variables_Example_Scene'.

Question: it seems like you might need to have every individual variable be its own scriptable object, so for 50 enemies, each enemy's HP would be 50 different scriptable variables?

Yes. If you don't want to create the variables beforehand, you can instantiate Scriptable variables at runtime containing the HP and pass it as a reference to your different systems (see Runtime Variables section below).

However, maybe that is not the best approach. Scriptable variables are best for things that have dependencies with other systems but are singular. It suits more for things like Player HP or a Boss HP as well. For many enemies maybe it's overkill.

Most of the time, if there are a lot of enemies, you don't really want or need to solve dependency with their individual stats. Instead, the most common use case is to create a Scriptable List of enemies that you can reference anywhere (solving most of your dependencies) and access their stats there.

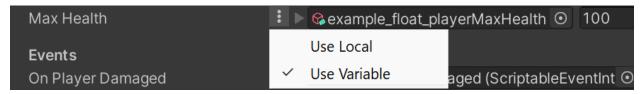
Variable References

Instead of exposing a reference to a Scriptable Variable, you can declare a variable reference, for example:

Public FloatVariable MaxHealth -> Public FloatReference MaxHealth

```
[SerializeField] private FloatReference _maxHealth = null; <
```

A variable reference allows you to choose between a local value or a ScriptableVariable.



You might want to use a VariableReference instead of a ScriptableVariable when you aren't sure if you will want to use a ScriptableVariable for a specific variable.

For example, I have a script called Car.cs and I want to expose the speed float variable. I'm not sure yet if I want to use a FloatVariable or just a float. Therefore, I can expose a FloatReference. Then in the inspector, if I choose 'Use Local', I can input a value as if it were a normal float. If later I want to access/modify the speed from other classes, I can create a FloatVariable called float_speed, change to 'Use Variable' in the Car component from the inspector, and drag my new FloatVariable.

This can also be useful if you have multiple objects that share the same components. Let's say you have different cars that share the same Car.cs component. Each Al car can use 'Use Local' with a predefined value, while the player car can 'Use Variable' and have it linked to a FloatVariable, making it flexible.

Runtime Variables

In some cases, you might want to still enjoy the benefits of Scriptable Variables (like the OnValueChanged event system) without having to create the assets in the project beforehand. For example, let's imagine you want to have multiple enemies, each with a health bar. You want to use a generic health component and a generic health bar connected by a Scriptable Variable float (health). In those cases, you could create Scriptable Variables at runtime.

The concept is simple: instead of already referencing the Scriptable Variable in the components, you instantiate it in Start():

```
private void Start()
{
    _runtimeHpVariable = CreateRuntimeVariable<FloatVariable>(name: $"{gameObject.name}_Hp");
}
```

```
private T CreateRuntimeVariable<T>(string name) where T : ScriptableVariableBase
{
    var runtimeVariable = ScriptableObject.CreateInstance<T>();
    runtimeVariable.name = name;
    return runtimeVariable;
}
```

Once the variable instance is created, you can pass it to your different components, either using an event system or directly calling a method if the components are in the same context (scene or prefab).

For a practical example of how to use runtime variables, please refer to the '8_RuntimeVariables_Examples_Scene' in the Example scene and its accompanying documentation.

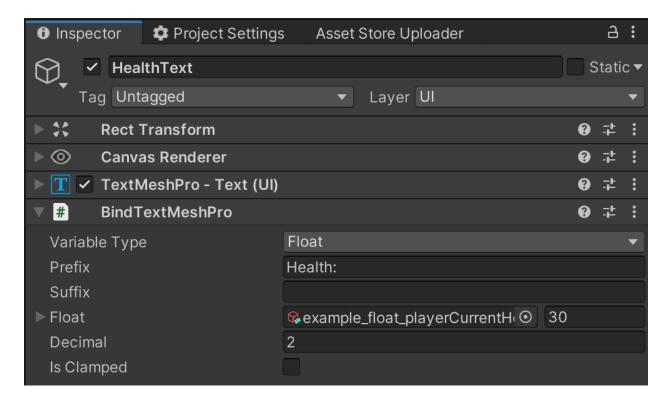
Note: I have done this myself in a few games in the past, but each game is different. Make sure to assess if this pattern fits your game. This is a more advanced pattern, and as such, I would not recommend it for people who have just started using Soap. There are other ways to solve the same issue.

Bindings

Bindings are components attached to GameObjects, enabling them to bind to a scriptable variable and execute a simple behavior when the variable's value changes. They are designed to save time, eliminating the need to create a script for minor adjustments like changing color, text, image, and other elements.

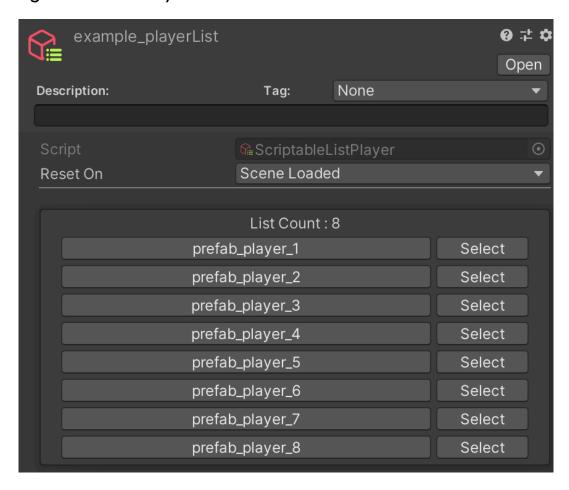
For a comprehensive understanding of how to use Bindings and their benefits, please refer to the '2_Bindings_Examples_Scene' in the Example scene and its accompanying documentation.

Example: BindTextMeshPro



Scriptable Lists

Lists can be useful to solve dependencies by avoiding the need to have a "manager" in between your classes.



Let's go through its properties:

- Reset On: when is this list cleared?
 - Scene Loaded: whenever a scene is loaded. Ignore Additive scene loading.
 - Application Start: when the game starts.
- <u>List content</u>: in play mode, you can see all the elements that populate the list. By clicking on the first button (with the name of the object), it pings the object in the hierarchy. By clicking on the "Select" button, it will select the object in the hierarchy.

The ScriptableList has several events that you can subscribe to by code.

1. OnltemAdded/OnltemRemoved

Sends the item added/removed as an argument.

2. OnltemCountChanged

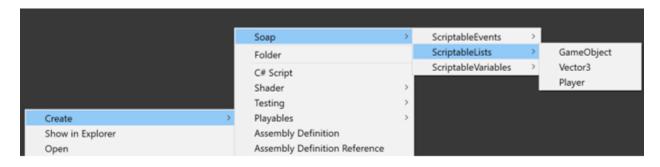
Sends the item added/removed as an argument.

3. OnltemsAdded / OnltemsRemoved

This event is useful if you don't want the OnltemAdded/OnltemRemoved event triggered every time you add/remove an item. This will be called once after a range of items have been added/removed.

To create a new list, simply right click in the project window and locate the scriptable list:

Create/Soap/ScriptableLists/



Alternatively, you can expose a reference to a Scriptable List directly in your class. Then, by clicking on the 'Create' button in the inspector, you can generate a new instance of that Scriptable List in the folder currently selected in the project window. For example:

```
public class MyCustomClass : MonoBehaviour
{
    [SerializeField] private ScriptableListGameObject _scriptableListGameObject;
}
```



For more detailed explanation and examples of Scriptable Lists, please refer to the example scene '3_ScriptableLists_Example_Scene'.

Question: Can I use a ScriptableList to store data? Meaning setting data in the editor, then play the game and read this data.

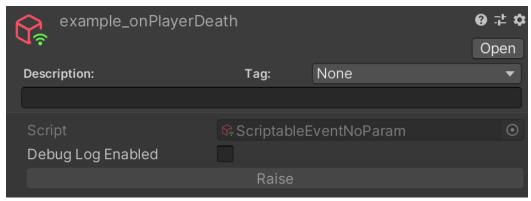
No. Scriptable lists should only be used at runtime. They will clear when exiting play mode, so it's not a solution to store data. They are very useful and they can contain anything. For example, you can have a script that stores positions (in a Scriptable list of Vector3) of a moving object, then another object would spawn coins on those positions.

If you want to store data, just make a ScriptableObject that has a reference to a List<T>.

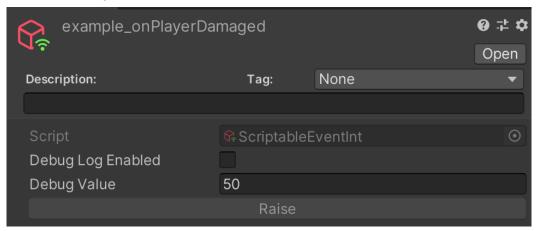
Scriptable Events

There are two types of scriptable events:

1. Events without parameters



2. Events with parameters



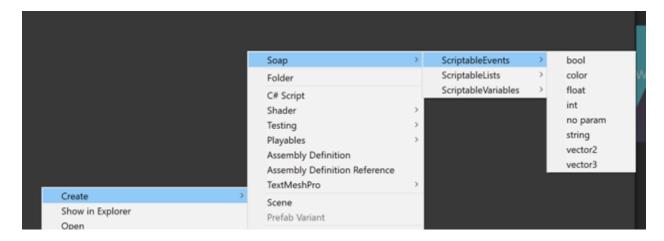
Let's go through its properties:

- **Debug Log Enabled**: If true, will log in the console the methods called when this event is raised (and the gameObject concerned).
- **<u>Debug Value</u>**: a value you can input to debug from the inspector
- <u>Raise</u>: this button is only active during play mode. It enables you to raise the event from the inspector.

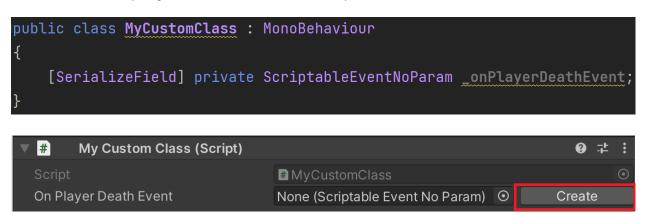
Events can be raised by code, unity actions or from the inspector(via the raise button). Raising events in the inspector can be useful to quickly debug your game.

To create an event:

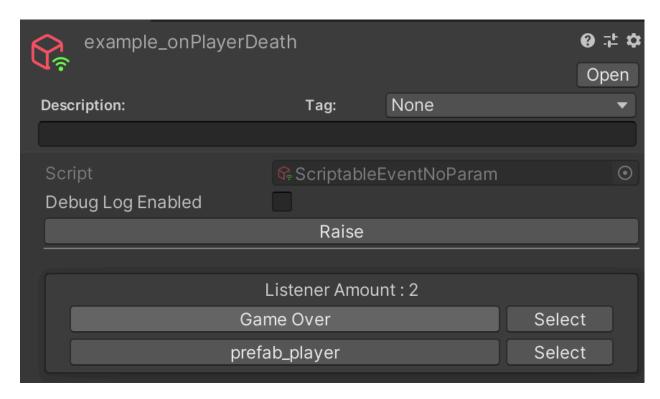
Create/Soap/ScriptableEvents/



Alternatively, you can expose a reference to a Scriptable Event directly in your class. Then, by clicking on the 'Create' button in the inspector, you can generate a new instance of that Scriptable Event in the folder currently selected in the project window. For example:

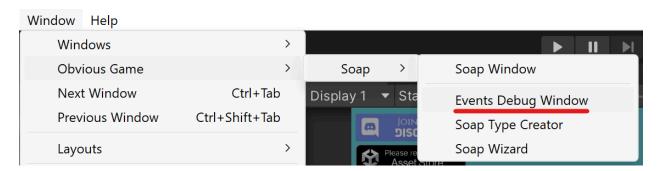


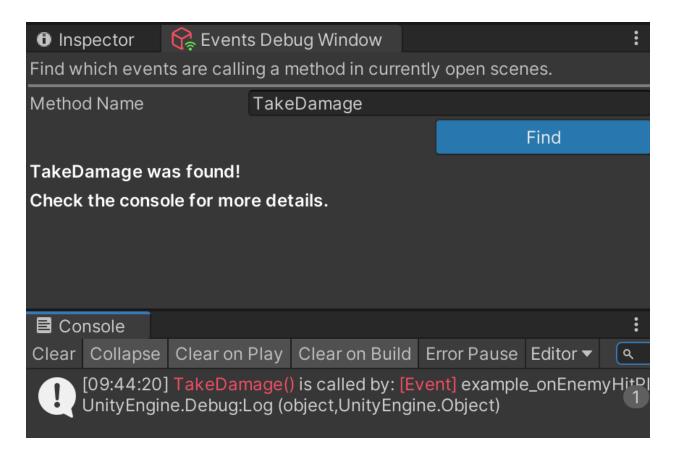
Scriptable events also have their own play mode custom inspector. During play mode, you can inspect all GameObjects that are registered to that event:



In editor, if you don't remember which event calls a method in one of your scripts, you can use the **Events Debug Window.** You can access it through the menu:

Window/Obvious/Soap/Event Debug Window





By typing the name of the method in the event debug window, it will search all objects in your scene and find which event calls that method.

Note: it is case sensitive.

Once the method is found (or not), a message is logged in the console. Clicking on this message will ping the corresponding object in the hierarchy. Additionally, you can click on the debug message to view the stack trace for more detailed information.

Please refer to the 4_ScriptableEvents_Example_Scene for a practical understanding of Scriptable Events and how to use them.

Question: When should I use a Scriptable Event or a Scriptable Variable?

It's not a black or white answer. The more you use SOAP, the clearer it becomes when to choose one approach over the other. Until then, I can provide a few examples for each use case. These examples are helpful, but

they are not the only way. Everyone has their own preferences, and sometimes you might feel like using a different solution for a specific task.

Scriptable Variables are mostly useful for solving dependencies of a single element (or global variable) across different parts of the game:

- Player (and anything related to it, like its stats)
- Settings (volume, quality, options, etc.)
- Score, Coins, Level Index
- Boss (and anything related to it, like its stats)
- Game States (TutorialComplete, QuestXCompleted)

Scriptable Events are mostly useful for communicating indirectly with other components:

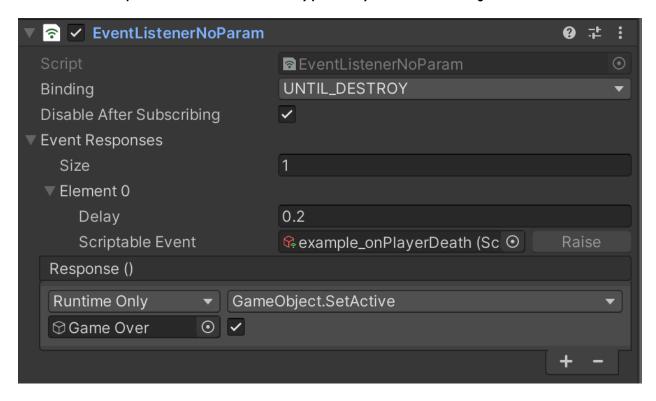
- OnPlayerDamaged(int damageAmount), OnPlayerDeath
- OnLevelCompleted(int levelIndex)
- OnCoinsCollected(int amount of Coins)
- OnPowerUpCollected(Vector3 position) to spawn a VFX at that location

Personally, I use Scriptable Events for UI and for visual feedback (camera shake, VFX, sound, etc.). Many developers use them for game logic as well, but I prefer to keep that in code and use static events or an event bus because I find it easier to track down game flow through code.

Another example: If you want to show the score in the UI (using TextMeshPro). Should you use a Scriptable variable or a scriptable event? You can use both but I would choose to bind to a scriptable variable. For this, use the BindTextMeshPro Component. Attach that to the TextMeshPro GameObject and the text will refresh every time the value of the variable changes.

Event Listeners

To listen to these events when they are fired, you need to attach an **Event Listener** component (of the same type) to your GameObjects.



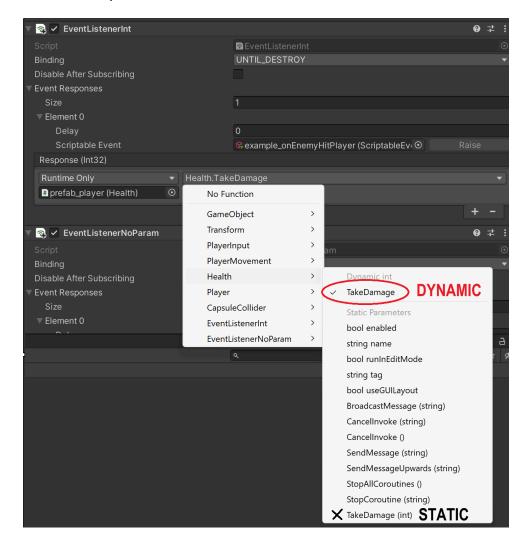
Let's go through its properties:

• Binding:

- Until_Destroy: will register in Awake() and unsubscribe
 OnDestroy().
- Until_Disable: will register OnEnable() and unsubscribe
 OnDisable().
- <u>Disable after subscribing</u>: if true, will deactivate the GameObject after registering to the event. Useful for UI elements.
- **Event responses:** each response invoked after the event was raised.
 - o Delay: a delay in seconds before the response is invoked
 - o Scriptable Event: the event to listen to
 - o Response: unity actions triggered

You can also register to events directly from code (via the OnRaised action).

When using an EventListener with a parameter, make sure you bind it to the **Dynamic** method and not the static method! Otherwise you won't be able to receive the parameters.



For more details and examples, please refer to documentation and the scene 4_ScriptableEvents_Example_Scene.

Question: Do I need to use an EventListener to receive messages from ScriptableEvents?

Not necessarily. EventListeners are useful if you want to trigger logic from the inspector using UnityActions. However, if you don't want to invoke a response through the inspector but rather by code, you can register to the OnRaised method of ScriptableEvents from code. Simply expose a reference to the ScriptableEvent and register / unregister from code. Here is a simple example:

```
using Obvious.Soap;
eusing UnityEngine;

public class GameOverDisplayer : MonoBehaviour
{
    [SerializeField] private ScriptableEventNoParam _onPlayerDeathEvent;

private void Awake()
    {
        _onPlayerDeathEvent.OnRaised += OnPlayerDeath;
}

private void OnDestroy()
    {
        _onPlayerDeathEvent.OnRaised -= OnPlayerDeath;
}

private void OnPlayerDeath()
    {
        gameObject.SetActive(true);
}
```

Scriptable Enums

"ScriptableEnums" is a term used when a ScriptableObject is utilized like an enum. Traditionally, enums are used to represent a fixed set of options such as operators (less than, equal, greater than), directions (north, south, east, west), and other categories like damage types (piercing, blunt, magic), teams, behaviors, and so on. In these scenarios, when enums are defined by code, a programmer must edit the code to add, remove, or modify an enum.

With ScriptableEnums, there is no need to modify the code; you can simply create a new asset, and that's it. For example, if we want to define element types, we can just create a new ScriptableObject that will represent that type. For example, let's create a ScriptableEnums representing an element type. We inherit from ScriptableEnumBase, as this provides us with convenient features and custom inspector available to all Soap scriptable objects. (Note that this is optional and does not prevent you from using SO as enums).

One benefit of using ScriptableObjects as enums is the ability to easily add additional data, which is not possible with C# enums. For instance, we can include a name, a sprite field and a color field:

```
[CreateAssetMenu(fileName = "scriptable_enum_Element", menuName = "Soap/Examples/ScriptableEnums/Element")]

public class ScriptableEnumElement : ScriptableEnumBase
{
    public string Name;
    public Sprite Icon;
    public Color Color = Color.white ■;
}
```



You can see how useful and flexible this approach is. It allows for various enhancements, such as adding resistance multipliers to other elements or a list of elements that one destroys. To compare these enums, you can simply compare the reference.

Another advantage is that ScriptableEnums can be modified and created at runtime. ScriptableEnums enable much more innovative functionalities, and for more details and examples, you can check out the documentation and the scene 6_ScriptableEnums_Example_Scene.

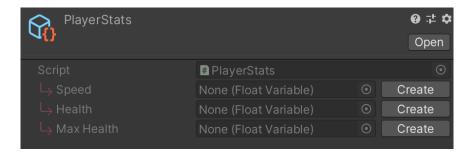


Scriptable SubAssets

Sometimes, you want to group several scriptable variables, lists, events, or enums together. You can assign them the same category (for example, Player) so that you can easily filter them in the Soap Wizard. However, even though this is useful, they still exist as individual assets. For these cases, you can use the [SubAsset] attribute to make them children of a specific scriptable object. For example, let's imagine we want to group all player stats-related scriptable variables under a single SO. We can do it like this:

```
[CreateAssetMenu(menuName = "Soap/Examples/SubAssets/PlayerStats")]
public class PlayerStats : ScriptableObject
{
    [SerializeField] [SubAsset] private FloatVariable _speed;
    [SubAsset] public FloatVariable Health;
    [SubAsset] public FloatVariable MaxHealth;
}
```

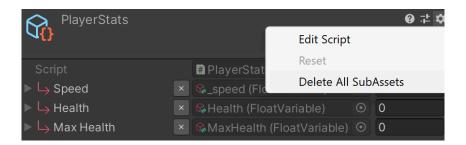
The [SubAsset] attribute works on [SerializeField] private or public Soap SOs. When marking a Soap SO with the [SubAsset] attribute, it will be displayed in your scriptable object wrapper like this:



You can create an instance of the sub-asset by clicking the Create button. This will create the Soap SO as a sub-asset of your parent scriptable object. Sub-assets will be prefixed with the following icon: \rightarrow Name.



You can delete a specific sub-asset by clicking the X button next to it, or you can delete all the sub-assets by right-clicking the parent SO (or clicking the settings icon) and selecting "Delete All SubAssets."



The [SubAsset] attribute can only be used on Soap SOs referenced in wrappers of type ScriptableObjects (or classes inheriting from SOs). You can access a particular sub-asset in two different ways:

- 1. The same way as any other SO, by exposing a reference and dragging a specific instance. Example: expose a reference to a FloatVariable and then select the _speed FloatVariable.
- 2. By exposing a reference to the wrapper (PlayerStats) and accessing it through that. Example: playerStats.Health.Add(10).

For more details and examples, please refer to documentation and the scene 7_ScriptableSubAssets_Example_Scene.

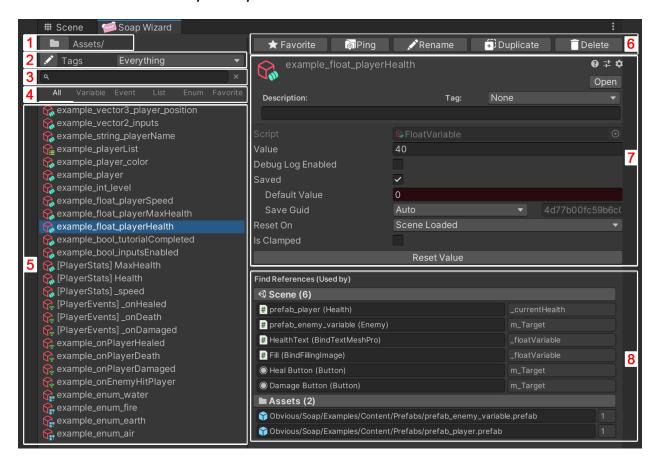
Question: How can I automatically save all the scriptable variables that are sub-assets of a wrapper SO?

Currently, I have not yet implemented a way to automatically save all scriptable variables marked as sub-assets. I am working on a solution, but in the meantime, here are the alternatives: enable "save" on each scriptable variable sub-asset individually or implement your own custom save/load method in the scriptable object wrapper.

Soap Wizard

The Soap Wizard is a custom window designed to manage all the Scriptable Objects from Soap in one location. It also offers convenient quality-of-life features. You can access this wizard from the menu:

Window/Obvious/Soap/Soap Wizard

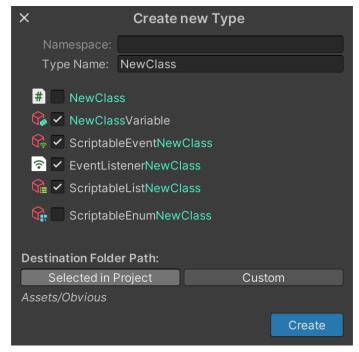


- Root Folder: This is where you can specify the root folder from which
 the wizard will locate all the scriptable variables, events, and lists. By
 default, it is set to 'Assets', meaning it will populate the wizard with all
 the Soap scriptable objects in your project
- <u>Tags</u>: filter by tags. Works like a layer mask (you can select multiples).
 You can change add/remove tags by clicking on the edit button.
- 3. <u>Search Bar</u>: filter and search for specific scriptable objects. Use the clear button to clear your search quickly.

- 4. **Type filter**: filter by the type of soap scriptable objects (all, variables, event, list, enums and favorite).
- 5. **Content**: display the Soap scriptable objects according to filters and selected folder. Click on an empty space to deselect an object.
- 6. <u>Utilities</u>: (from left to right) add/remove SO to favorite, pings the SO in the project window, rename the SO, duplicate the SO (similar to CTRL+D in project window), delete the SO.
- 7. Selected SO view: inspector displaying the selected scriptable object.
- **8.** <u>Find References:</u> See where this particular SO is used by components in the scene and by other assets in your project.

Soap Type Creator

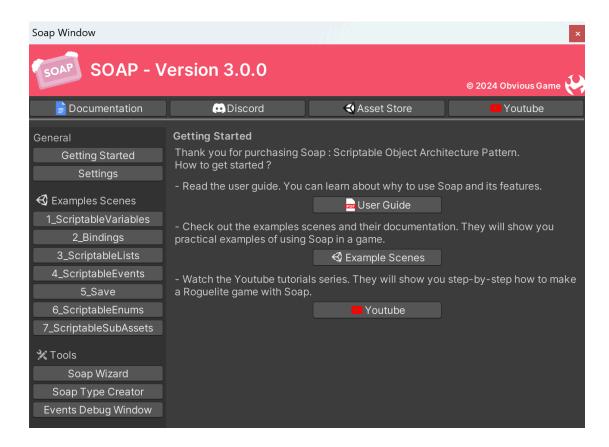
The Soap Type creator enables you to create automatically new types of Soap Scriptable Objects: Window/Obvious/Soap/Soap Type Creator For instance, if you wish to create a custom variable of type 'Player', this feature will generate the C# classes for you and save them in the selected folder or a custom folder of your choice.



Soap Window

The Soap Window appears the first time you import Soap. You can always open it via: Window/Obvious/Soap/Soap Window





The Soap Window serves as a comprehensive hub, providing all the essential information you need to know about Soap. It's designed to simplify finding everything in one place. From here, you can access and modify the **settings**.

Enabling Editor fast play mode

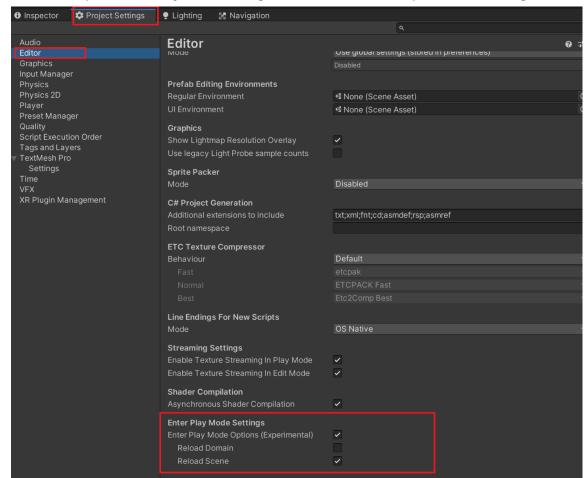
To enable / disable fast play mode. You can either:

use the shortcut (CTRL+ L) or Tools menu:
 Tools/Obvious/Soap/ToggleFastPlayMode

A message in the console will tell you if its enabled or disabled.



• Manually set it (Project Settings/Editor/EnterPlayMode Settings)



Ensure that 'Reload Scene' is enabled. Our goal is to quickly reload the scene but not the domain, which is the slower part.

Note: The option to toggle and have a shortcut for switching between fast and normal play mode exists because sometimes, certain plugins or components may cause errors (usually due to improper reset). Therefore, by quickly shifting to default play mode and playing once, you can resolve occasional issues. If something isn't working, most of the time, simply reloading the domain fixes it. Once resolved, I typically switch back to fast play mode.

Performance

Some people asked me about the performance cost of using Soap. Soap has been used in many commercial games (most on mobile/web GL), and performance issues were never related to using Soap. For those who are still curious, please read the explanations below.

Soap variables, lists and events rely on native C# events for callbacks. Soap custom editors and features are kept simple and minimal to stay efficient and performant (as opposed to some other ScriptableObject architecture frameworks). For example, scriptable variable operation is the fastest in Soap compared to other popular frameworks.



Setting the value of a Scriptable Variable every frame will create some garbage (few bytes) due to boxing and unboxing. Unfortunately, all the scriptable object architectures have the same issue. In most cases though, it is not common to have a lot of variables that have their value set every frame. Furthermore, it is rare that this amount of garbage becomes an issue, but I still want to mention it.

By assigning references in the editor with scriptable objects you don't need to solve the references at runtime (as opposed to a traditional Dependency injection framework).

How to extend SOAP?

You can expand this plugin by creating your own scriptable variables, lists, and events. You can either:

- 1. Use the Soap Wizard to automatically generate the code for the classes (refer to 'Create New Type' above),
- 2. Write the classes yourself. If you choose the latter, simply inherit from the following classes and replace 'T' with your type:
- ScriptableVariable<T>
- ScriptableList<T>
- ScriptableEvent<T>
- EventListener<T>
- VariableReferences<V, T>

Ensure your class is Serializable by adding the [System.Serializable] attribute to it.

For ScriptableEnums, simply inherit from ScriptableEnumBase.

Finally, you can create new 'Binding' components. While I have developed a few, you are encouraged to be creative and design bindings that will be beneficial in your games. Examples of how to extend the package can be found in the scripts of various examples.

Compatibility

Soap is compatible with **Odin**, **Fast Script Reload** and most editor specific assets.

Soap integrates well with any other plugins. Currently, Soap has integration with:

• Playmaker: 🔼 Soap-Playmaker

Note: if you are using NaughtyAttributes, make sure you delete the ObjectEditor.cs script from Soap. NaughtyAttributes has its own script, and it conflicts with the one from Soap. Things should work fine after that \odot .

Question: Is it safe to move the "Obvious" folder into a "Plugins" folder?

Yes. If you import the Soap-Playmaker actions, make sure the Obvious folder is in the same **Parent** folder as Playmaker, otherwise you will get a compile error.

Contact

Any questions, suggestions, or feedback?

Feel free to reach me at: obviousgame.contact@gmail.com

And join the discord server: https://discord.gg/CVhCNDbxF5

Please leave a review on the asset store, as it really helps us to improve the package and to gain visibility.