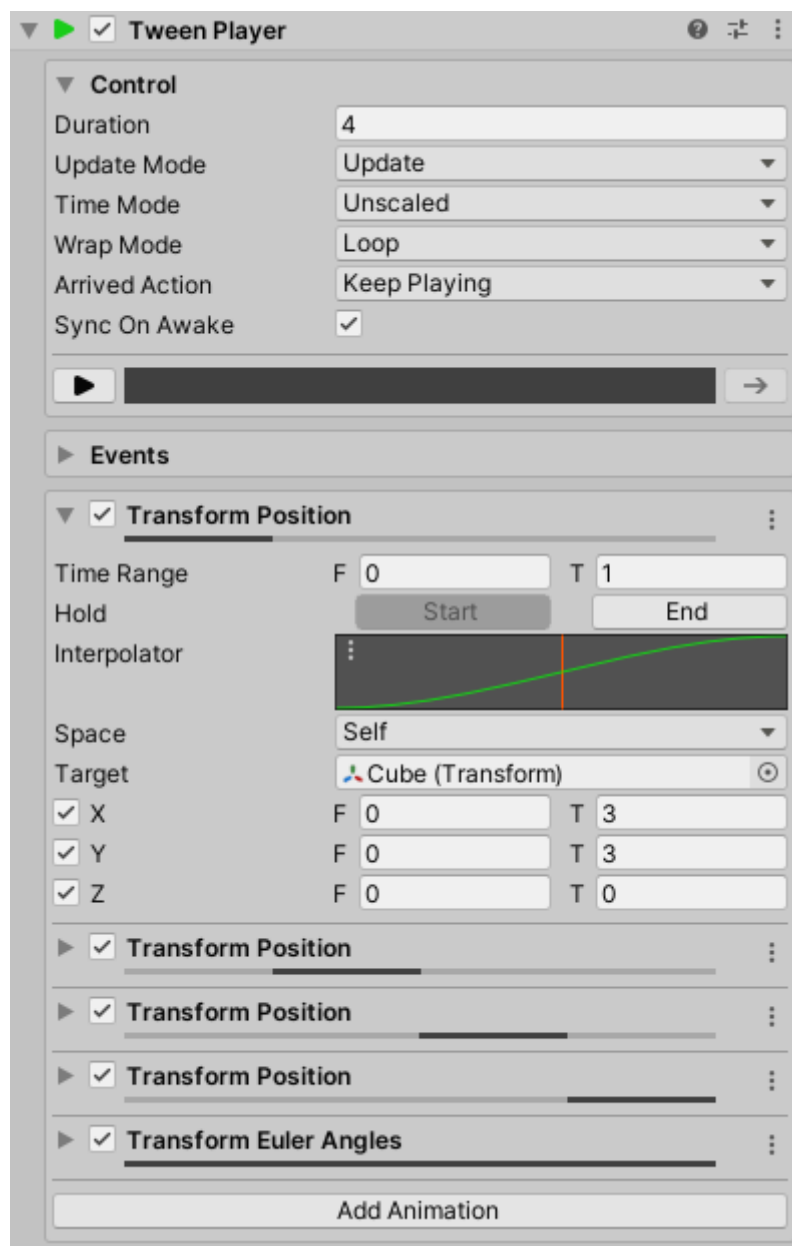


## Tween Player

**Tween Player** is a simple & high performance & powerful Interpolation animation tool. Unlike other interpolation animation tools, **Tween Player** is more data-driven and extensible.

The main concept of this tool is a **TweenPlayer** component which can add multiple **TweenAnimation**. The menu path of **TweenPlayer** component is *Component > Miscellaneous > Tween Player*.

## Inspector



**TweenPlayer** inspector includes three parts: **Control**, **Events** and **animation list**.

## Control

There are some playback options in this part.

**Duration:** how long the playback will take, in seconds.

**Update Mode:** which updating phase the playback will be executed.

**Time Mode:** use normal game time or scaled time?

**Wrap Mode:** Clamp, Loop and Ping Pong.

**Arrived Action:** controls whether playback stops when it ends.

**Sync On Awake:** samples all animation states when this Tween Player awakes, it can avoid flashing caused by error initial states.

## Events

There are two callbacks you can register: OnForwardArrived and OnBackArrived.

**OnForwardArrived:** called when playback gets to the end point.

**OnBackArrived:** called when playback gets to the starting point.

## Animation List

Every animation has some common settings.

**Time Range:** the time range this animation works in.

**Hold:** controls the animation behavior out of time range. If *Start* is enabled, time before *Time Range* is considered the same as start of *Time Range*; if *End* is enabled, time after *Time Range* is considered the same as end of *Time Range*.

**Interpolator:** controls the interpolator curve in the *Time Range*. Every frame the animation calculates new state like this:  $lerp(F, T, interpolator(t))$ ,  $t$  is normalized time in the *Time Range*.

## How to...

### ...play or stop TweenPlayer at runtime?

Just set `TweenPlayer.enabled`.

### ...use Light2D animations?

Uncomment the first line of `URPAnimations.cs`.

### ...add custom animation?

It's simple, like this:

```
[Serializable, TweenAnimation("Rendering/Light Color", "Light Color")]
public class TweenLightColor : TweenColor<Light>
{
    public override Color current
    {
        get => target ? target.color : Color.white;
        set { if (target) target.color = value; }
    }
}
```

If you run into any issues using my assets, please submit feedback [here](#).