ShockWave Effect

Asset Store Link

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Contact

Questions, suggestions, help needed?

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Description/Features

Awesome ShockWave Effect!

- Add it to any script with just one line of code!
- Create ShockWaves (and Reverse ShockWaves)
- · Customize your ShockWave style with AnimationCurves
- Easily Pause/UnPause Shockwaves
- · Unity Free friendly.
- Fully commented C# code.
- Awesome demos!

Terms of Use

You are free to add this asset to any game you'd like However: please put my name in the credits, or in the special thanks section. :) please do not re-distribute.

Table of Contents

ShockWave.cs

- Speed,Radius,Amplitude,WaveSize
- Methods
- 2. Demo1
- 3. Demo2
- 4. Demo3

ShockWave.cs

ShockWave.cs is the main script that creates and manages the shockwaves.

Speed, Radius, Amplitude, Wave Size

these are the 4 values that we can adjust to change the look, and style of the shockwave.

Speed:

this is just the speed at which the animation will play.

Radius:

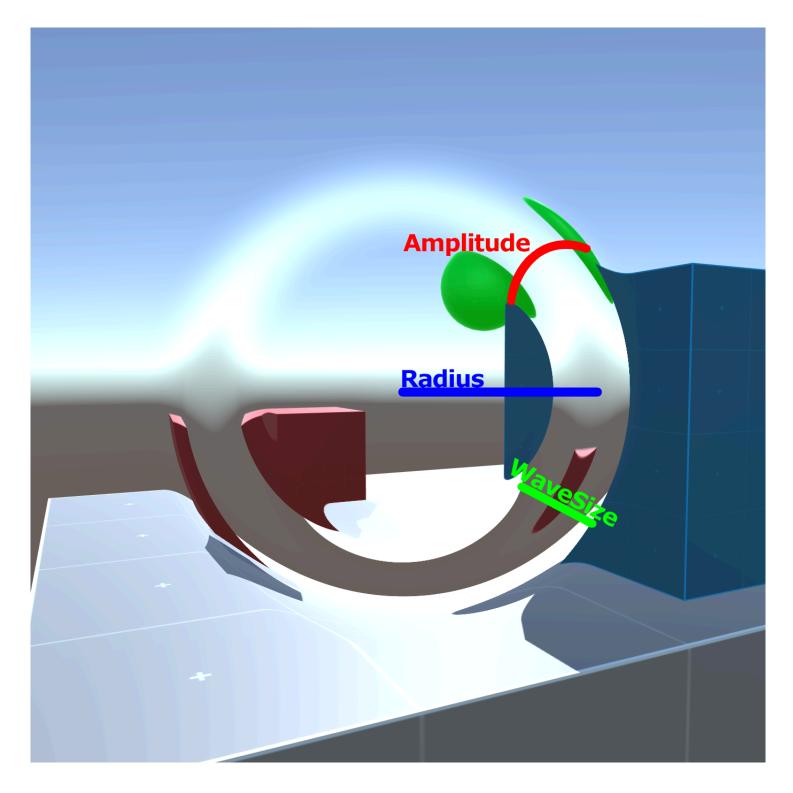
the distance between the center of the circle to it's edge.

Amplitude:

the distortion amount along the edge of the shockwave.

WaveSize:

this is the thickness of the shockwave.



Methods

There are 12 methods that can be used to display a shockwave.

This first set will allow you to pass in a Position (or a GameObject), and floats for Speed, MaxRadius, Amplitude, and WaveSize

```
public void StartIt(Vector2 Position, float Speed = 1f,float MaxRadius = 1f, float Amplitude =

public void StartIt(Vector3 Position, float Speed = 1f,float MaxRadius = 1f, float Amplitude =

public void StartIt(Vector3 Position, bool IsScreenPosition, float Speed = 1f,float MaxRadius = 1f, float Amplitude = 1f, float MaxRadius = 1f, float Amplitude = 1f, float Ampli
```

Similar to the first set, this Second set will allow you to pass in a Position (or a GameObject), and floats for Speed, MaxRadius, Amplitude, and WaveSize. However the animation will play in reverse

```
public void ReverseIt(Vector2 Position, float Speed = 1f,float MaxRadius = 1f, float Amplitude

public void ReverseIt(Vector3 Position, float Speed = 1f,float MaxRadius = 1f, float Amplitude

public void ReverseIt(Vector3 Position, bool IsScreenPosition, float Speed = 1f,float MaxRadius

public void ReverseIt(GameObject Target, float Speed = 1f,float MaxRadius = 1f, float Amplitude
```

If you want more control over how the shockwave looks, the last set will allow you to pass in animationCurves

```
public void StartIt(Vector2 Position, float Speed = 1f, AnimationCurve radiusOverTime = null,

public void StartIt(Vector3 Position, float Speed = 1f, AnimationCurve radiusOverTime = null,
```

```
public void StartIt(Vector3 Position, bool IsScreenPosition, float Speed = 1f, AnimationCurve |
public void StartIt(GameObject Target, float Speed = 1f, AnimationCurve radiusOverTime = null)
```

Demo1

In demo1 we are creating shockwaves based on the value of the sliders, and the value of the reverse toggle.

```
void Update ()
{
    if (Input.GetMouseButtonDown(0))
    {
        if (RevSW)
        {
            ShockWave.Get().ReverseIt(Input.mousePosition,true,Speed,MaxRadius, Amp ,WS);
        }
        else
        {
            ShockWave.Get().StartIt(Input.mousePosition,true,Speed,MaxRadius, Amp, WS);
        }
    }
}
```

Demo2

In demo2 we are creating shockwaves not calling StartIt (or ReverseIt), and then setting the radius, amplitude, and waveSize to a random float.

This technique can be done if you want a lot of control over the shockwave, for example a game that uses 3D Touch.

```
void Update()
{
    if (Input.GetMouseButtonDown(0))
    {
        SW = ShockWave.Get();
        SW.SetPosition(Input.mousePosition,true);
        SW.radius = Random.Range(0.05f,0.2f);
        SW.amplitude = Random.Range(0.05f,0.2f);
        SW.waveSize = Random.Range(0.05f,0.2f);
    }
}
...
```

Demo3

Demo3 is a testing scene for the ShockWaves using AnimationCurves. Edit the values in "ShockWaveMaker" GameObject, Play the scene, then click around.

```
public float speed = 1f;
public AnimationCurve radiusOverTime;
public AnimationCurve amplitudeOverTime;
public AnimationCurve waveSizeOverTime;

void Update()
{
    if (Input.GetMouseButtonDown(0))
    {
        ShockWave.Get().StartIt(Input.mousePosition,true,speed,radiusOverTime,amplitudeOver}
    }
}
...
```