LWRP/URP SSR Water

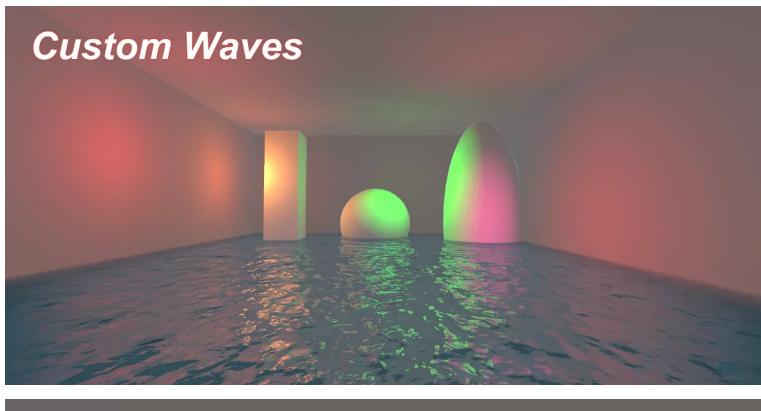
LWRP/URP SSR Water

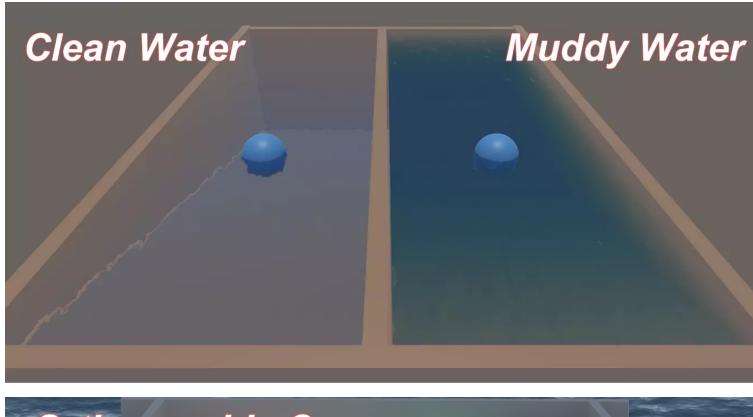
This is the LWRP/URP version of Fatanstic SSR Water.

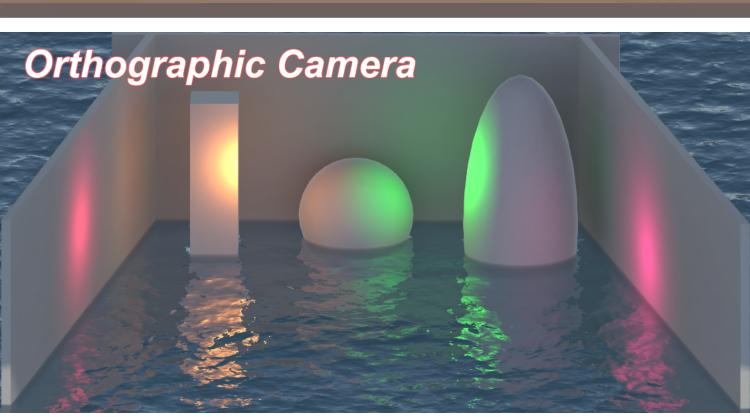
| Asset Store Link | Youtube Link |

Last updated: Feb 27, 2020









Features

- Three direction realistic waves. Support clean and muddy.
- PBR lighting with screen space reflection. • Realistic refraction.
- Forward SSR, Mobile ready.

How to use

First of all, you should install LWRP or URP related packages, assign LightweightRenderPipelineAsset or UniversalRenderPipelineAsset in graphic settings.

Then import my package, folders are listed like this: Assets > BadDog

ForwardSSRWater_Common ■ ForwardSSRWater_LWRP Document 3 ForwardSSRWater_Common contains common resources such as wave textures and skybox.

ForwardSSRWater_LWRP is the version of LWRP, ForwardSSRWater_URP is the version of URP, choose the one you need and delete the other one.

Shader is named like this:

render-pipeline shader name

LWRP BadDog/LWRP/BGWater URP BadDog/URP/BGWater To run the shader correctly, each **RenderPipelineAsset** should toggle **Depth Texture** and **Opaque Texture**:

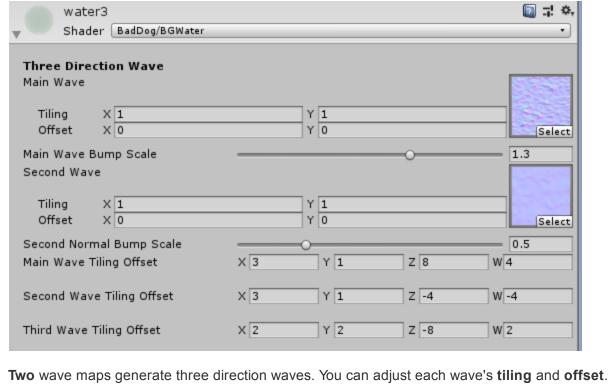
That's all, check the demo scenes and enjoy it, :)

Depth Texture

Opaque Texture 🗸 You can also use my RenderPipelineAsset in the Settings folders.

Shader properties

Wave Section water3



Water Base Color

Water

Water Base Color

Muddy

Water Muddy Color Water Muddy Scale Water Depth Offset

It's computed as diffuse color. **Water Muddy and Depth**

Water can be **clean** or **muddy**. Clean water is more transparent than muddy water. Water's transparency is computed by **depth**. Depth is computed by **muddy scale** and camera's **view direciton**, you can also add a **depth offset** to adjust the final

transparency. Specular

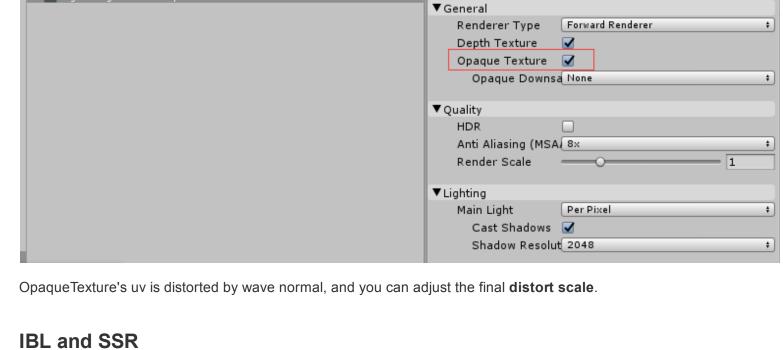
Specular Specular Intensity

Specular color is always (0.04, 0.04, 0.04), and you can adjust its intensity as you need. Refraction

Refraction Distort Scale

Refaction needs Opaque Texture enabled.

4 > * Assets > BadDog > ForwardSSRWater_LWRP > **Settings**



SSR **Sample Count** is performance sensitive. For mobile device, max sample count use 8 and sample step use 20 is

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Open

LightweightRenderPipelineAsset

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Enviroment Reflection 0.4

Screen Space Reflection

Enviroment Intensity

Screen Space Reflection SSR Max Sample Count 12 SSR Sample Step 16 SSR Intensity 0.75 Unity's reflection probe is used for **IBL**, but it's not enough. If you need a realistic realtime reflection, you can enable screen space reflection. IBL and SSR are **mixed** for the final environment lighting.

good enough.

Final

The final water color is mixed by reflection and refraction.

Orthographic Camera Orthographic Camera

About the examples

You should toggle **Orthographic Camera** if you are using an orthographic camera.

There are five example scenes: testSSR testLighting

- testDepthAndMuddy
- testRoom testRoomOrtho

Choose linear space and check them for details.

LWRP demos are tested using unity 2019.1 and unity 2019.2. **URP demos** are tested using unity **2019.3**.

Customer Support:

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