

# **README.md**

## A collection of URP shaders and render features. rendering shader unity render

**About** 

urp **The Readme** MIT License 1 star 1 watching **೪** 0 forks

# No releases published

# No packages published

Releases

**Packages** 

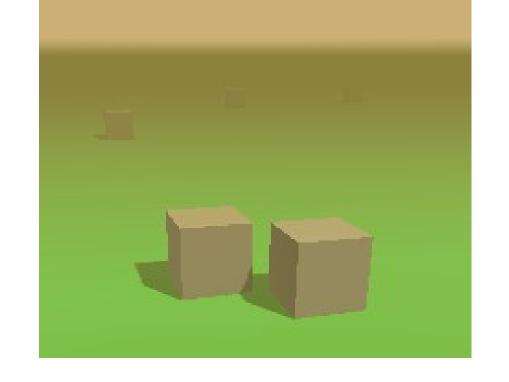
Languages

# ShaderLab 61.7%

HLSL 8.4%GLSL 4.7%

**C**# 25.2%

# Developed and tested with Unity 2020.3.16f1 and URP 10.5.1. Fog Skybox

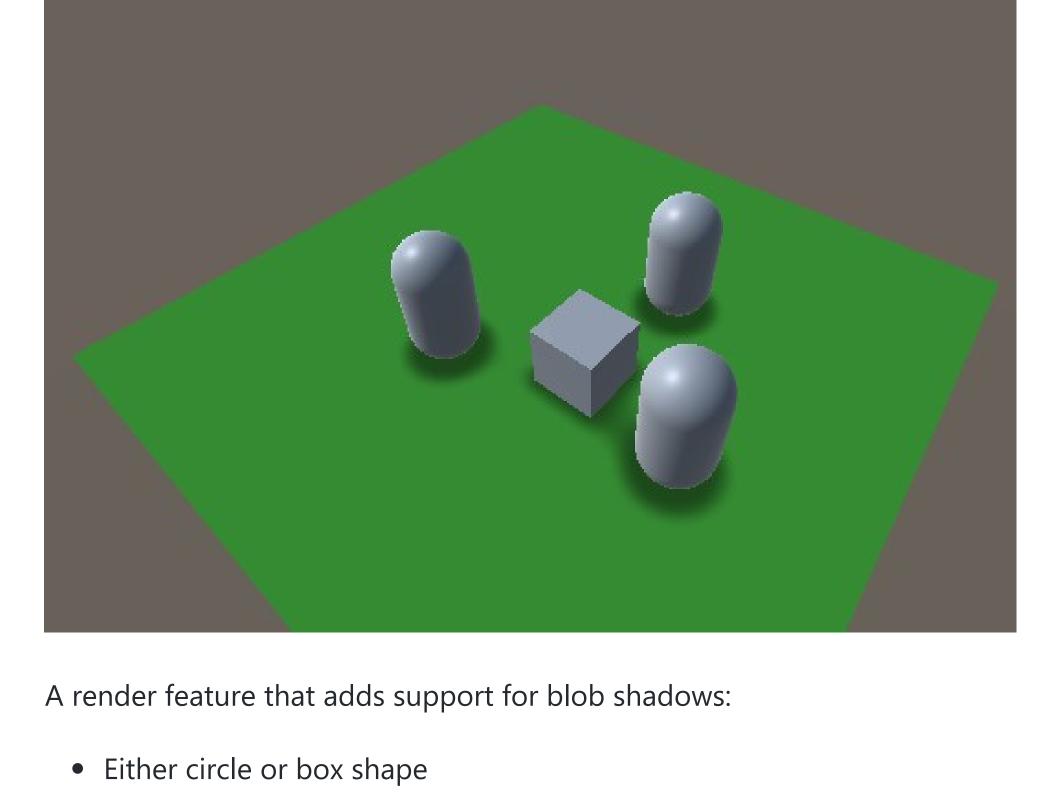


**Unity Graphics** 

A collection of URP shaders and render features.

**Blob Shadows** 

A skybox shader that blends with fog.



- Includes an example shader that supports receiving blob shadows (an extension of Toon Shader Lite)
- Performance

Can be used as primitive AO

Measured on Snapdragon 845 via Unity's GPU Profiler (OpenGL ES)

## • Setup: ~20 capsules

- All circles
- Resolution per unit = 8 (further increase does not improve visual quality)
- Shadow Distance = 15 Shadow Maps:

• Blob Shadows:

- Shadow Resolution = 256 Shadow Distance = 20
- 1 Cascade

Soft Shadows On

- Note: sampling shadow maps when rendering shadow receivers is **NOT** taken into account.
- Results (in ms):

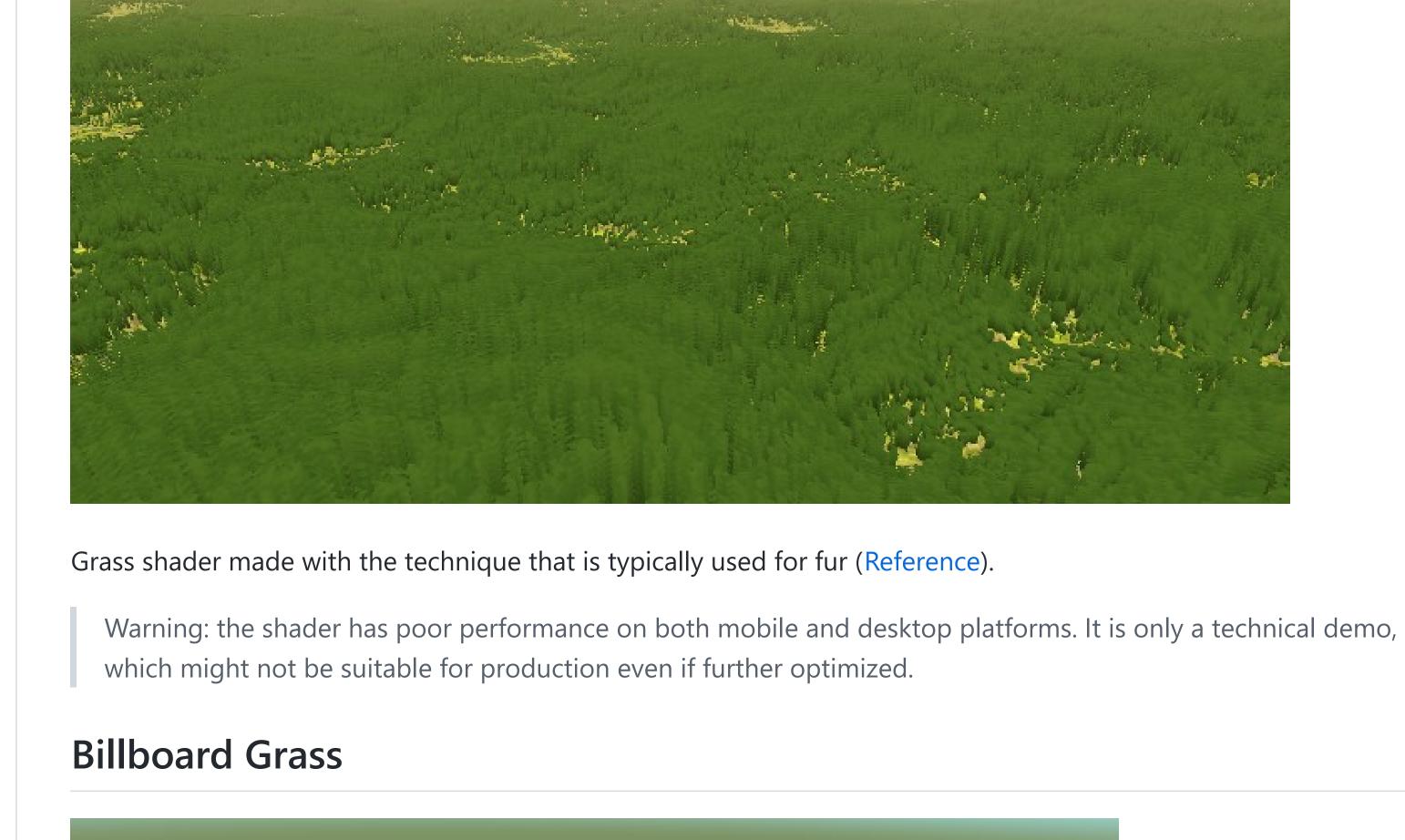
• Blob: 0.08 (Submit) + 0.21 (Render) = **0.29** 

• Shadow Maps: 0.05 (Setup) + 0.21 (PrepareDrawShadows) + 0.21 (Submit) + 0.13 (Render) = 0.6

# Drawing

Runtime drawing on the GPU side with configurable brush (color, size, hardness).

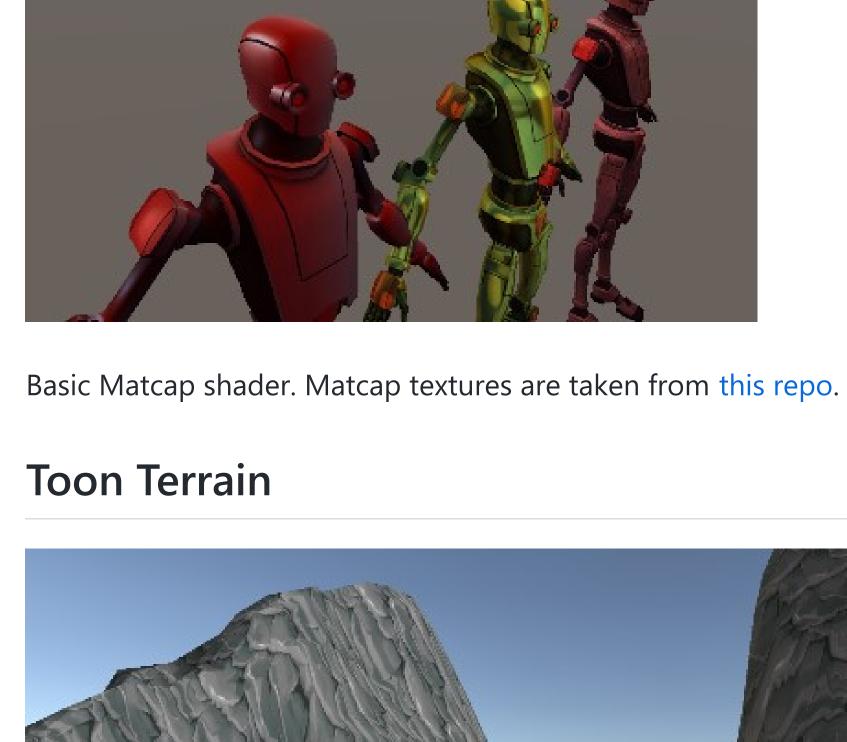
**Layered Grass** 





# Grass implemented with geometry shader: Grass placement mesh is generated via Job System • Automatic LOD system implemented in the geometry shader (controlled via material properties) Based on this tutorial

Matcap



Lightweight toon terrain shader.

 Shadow casting and receiving 4 layers (splats) max

Configurable ramp (specified as a texture)

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