

## Fake Fog



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Guide and Documentation

## Supporting

**This is mainly for unity urp  
Made in unity 2022 LTS.**

**This can be used for HDRP too (not tested).  
Also for Built in Render pipeline (not sure).**

**\*for that try setting shaders targets HDRP and Built in**

**\*note if you see Pink Objects , Set Rendering  
pipeline to URP ([Tutorial](#))**

## Demo scene



## Key Features

- Multilayered Ground Fog
- Fog Ring
  - \*Note for best visuals apply unity default Fog too.
  - \*If you are modifying the fog , be careful stacking fog layers , it cause Overdraw
  - \* this scene good for low end hardware

## Advance Demo scene



## Key Features

This scene include

- God rays particle system
- Multilayered Terrain Fog (advance fog)
- Fog ring (advance fog)
- Wind Particle systems

[See more details](#)

## **What is new in Advance fog**

It has a vertex shader to simulate fog uneven Height  
Also it has Fading to simulate fog disappear when camera  
Is near the fog

## **Why use Terrain for Advance fog instead of Quad**

Advance fog terrain shader needs vertex for displacement  
.Since unity urp does not support tessellation , we need a  
High poly mesh . Having high poly mesh that cover entire  
scene is bad. Unity terrain support tessellation so we use that  
Instead of a high poly mesh

## **God Rays (particle system)**

**Since we are not doing real volumetric fog , we can not accurately simulate light beams , so we use unity particle system to approximate light beams . (fake fog and fake god rays are good for performance wide)**

## **Wind (particle systems )**

**Wind adds some nice touch for the scene**

## **Note**

- Using particle systems give load on cpu , if you are familiar with unity VFX , you can use that to implement these effects**

# Advance Night Demo



## Key Features

This scene include

- Rain Particle system
- Aurora
- Things included in Advance Demo Scene

[See more details](#)

## **Aurora**

**A little bit of touch to sky to make it beautiful**

## **Rain Particle system**

**This particle system help to create atmosphere .**

**For use it simple put it on the scene at a reasonable highest (rain drops only fall for some seconds). Also there is a flash effect when rain drop hit a collider**

**Again if you want use VFX instead of particle system for the rain**



## **Additional Tool**

**There is a tool for creating fog ring instead of manually Putting quads.**

**It is located under “tools/ place objects in circle “**

**To use that**

**Set the center (ex :- player or camera)**

**Set the object (fog quad)**

**Set the circle radius and objects amount**

**And click place objects**

**\*note adjust offset to break the seamless of object placement**

**\*note click Delete All spawn objects to delete spawned objects**

## Limitations

**Transparent Fog when stacked become a problem because  
It do a thing called “Overdraw” .  
So Don't Stack too much transparent fogs  
Usually 2 to 3 fog quads are enough**

## **Future Expectations**

**To Use VFX instead of particle systems  
And to add more features ...**

**Thanks for using Cody Dreams product**