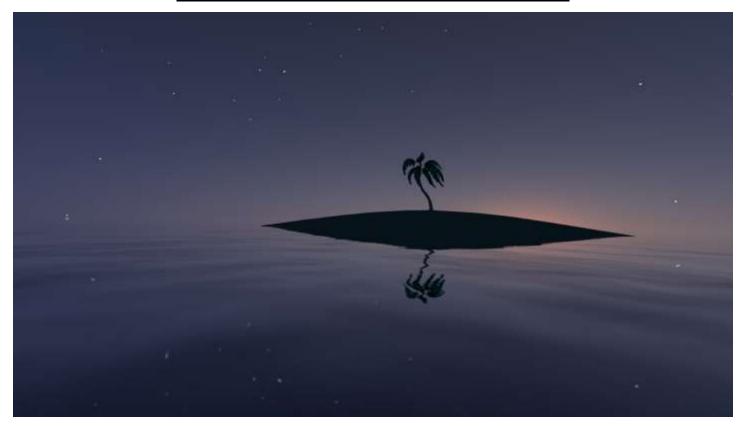
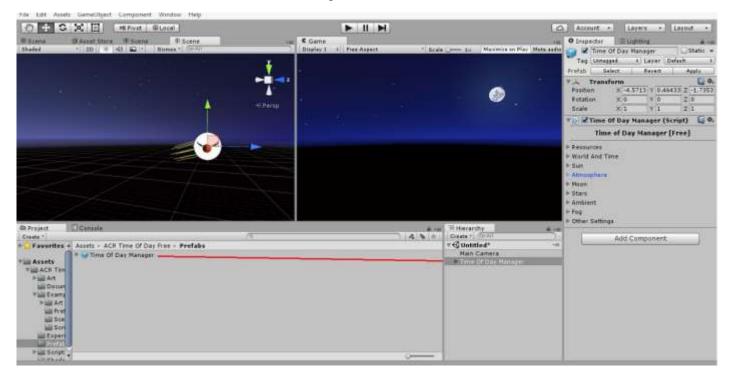
Time Of Day System Free [v1.2.7].



About.	
Tibout.	
❖ With this package you can create Basic Day/Night cycle, also it includes a system of curves and gradients to control the parameters of the lighting, sky, moon, stars, fog,etc,	
2	

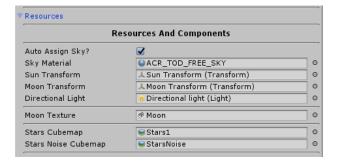
Getting Started.

- ❖ Drag the prefab "Assets/Time Of Day System Free/Prefabs/Time Of Day Manager" into your hierarchy.
- Note: Make sure that there are no additional lights in the scene.



Or

❖ Drag the script "Assets/Time Of Day System Free/Scripts/TimeOfDayManager" to empty gameObject and assign the required components and resources.

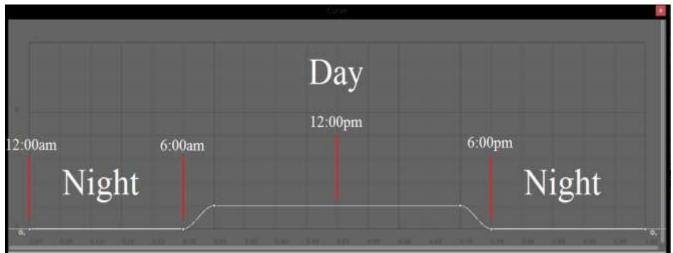


Curves and Gradients.

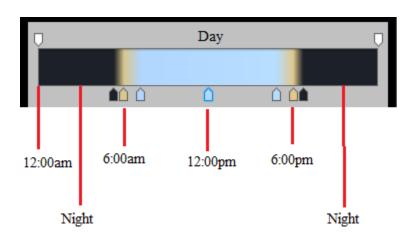
- ❖ You can choose to use curves or gradients:
 - > Press "C" button to activate curves.
 - > Press "G" button to activate gradients.



❖ You can be guided with the images to set the curves and gradients.



0 = 12:00am, 0.25 = 6:00am, 0.5 = 12:00pm, 0.75 = 6:00pm.



0 = 12:00am, 25 = 6:00am, 50 = 12:00pm, 75 = 6:00pm.

World And Time.



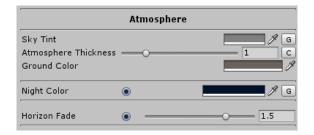
- **Longitude:** This is the longitude of the world.
- Arr Day In Secods: The day in seconds(60 = 1minute, 3600 = 1hour, 86400 = 24 hours).
- **Time Line:** This is the timeline.

Sun.



- ❖ Sun Type: This is the sun type(miePhase and sunSpot).
- **Sun Color:** This is the color of the sun and sun directional light.
- **Sun Size:** This is the size of the sun.
- **Sun Light Intensity:** This is the intensity of the sun directional light.

Atmosphere.

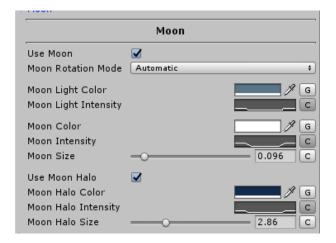


- **Sky Tint:** This is sky tint, It affects the wavelength.
- **Atmosphere Thickness:** This is thickness of the atmosphere, It affects the Rayleigh.
- **Ground Color:** This is the ground color.
- **❖ Night Color:** This is sky color at night.
- ❖ Horizon Fade: This is the fade of the moon and stars on the horizon.



Horizon Fade.

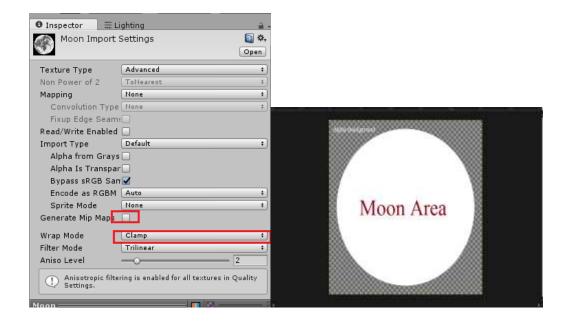
Moon.



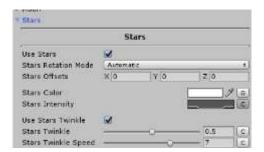
Moon Rotation Mode:

- **Automatic :** Rotate moon in the opposite direction to the sun.
- **Custom**: Custom rotation moon.
 - **Moon Yaw:** This is the rotation in the y axis.
 - **Moon Pitch:** This is the rotation in the x axis.
- ❖ Moon Light Color: This is the color of the moon directional light.
- ❖ Moon Light Intensity: This is the Intensity of the moon directional light.
- **Moon Color:** This is the color of the moon texture.
- **Moon Size:** This is the size of the moon texture.
- **❖ Moon Halo Color:** This is the color of the moon halo.
- **❖ Moon Intensity:** This is the intensity of the moon texture.
- ❖ Moon Halo Size: This is the size of the moon halo.

Moon Texture Settings.

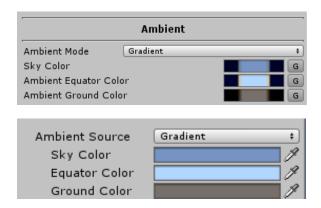


Stars.



- **UseStars:** Enable/Disable the stars.
- **Stars Rotation Mode:** Rotaion mode of the stars.
- **Stars Offset:** Offsets of the stars cubemap.
- **Stars Color:** This is the color of the stars cubemap.
- **Stars Intensity:** This is the intensity of the stars cubemap.
- **UseStarsTwinkle**: Enable/Disable stars twinkle.
- **Stars Twinkle :** This is the twinkling of stars.
- **Stars Twinkle Speed :** This is the twinkling speed of stars.

Ambient.

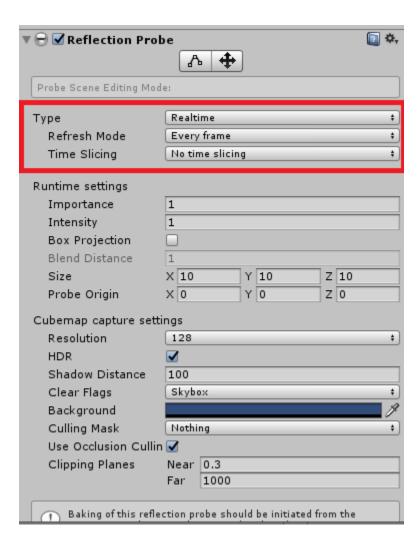


❖ Here they are controlled properties of the ambient using curves and gradients.

See: https://docs.unity3d.com/Manual/GlobalIllumination.html

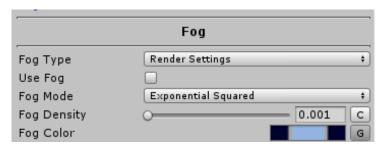
Reflection Probe.

Settings for reflection probe.



See https://docs.unity3d.com/Manual/class-ReflectionProbe.html

Fog.



***** Fog Type:

- > Render Settings : Render settings fog values.
- > Evaluate Only Only evaluate curves and gradients of the fog.
- > Off: Enable/Disable fog.
- ❖ Here they are controlled properties of the fog using curves and gradients.

See: https://docs.unity3d.com/Manual/GlobalIllumination.html

Other Settings



Exposure: This is HDR exposure.

Scripting.

Namespace.

To access the class "Time Of Day Manager", you must use this namespace.

AC.TimeOfDaySystemFree

```
Example:
```

```
using UnityEngine;
using System.Collections;
using AC.TimeOfDayFree;

public class Test : MonoBehaviour
{
```

Important Properties.

CGTime: This property is used to evaluate the curves and gradients,

Example:

```
AnimationCurve exampleCurve = new AnimationCurve();
void Update()
{
    float exampleFloat = exampleCurve.Evaluate(CGTime);
}
```

- \diamond timeline: This is the current time or timeline, the range is 0 k_DayDuration (default is 24).
- *** Hour :** This is the current hour.
- **Minute:** This is the current minute.
- **TimeString:** For UI time.
- **❖ IsDay :** Day state.
- **!** IsNight: Night state.

Public Properties And Variables.

Variables.

- * skyMaterial.
- moonTexture
- * starsCubemap.
- starsNoiseCubemap.
- playTime.
- useWorldLongitudeCurve.
- worldLongitudeCurve.
- ❖ dayInSeconds.
- timeline.
- useSunColorGradient.
- sunColorGradient.
- useSunSizeCurve.
- sunSizeCurve.
- useSunLightIntensityCurve.
- sunLightIntensityCurve.
- useSkyTintGradient.
- useAtmosphereThicknessCurve.
- atmosphereThicknessCurve.
- groundColor.
- useNightColor.
- useNightColorGradient.
- nightColorGradient.
- useHorizonFade.
- useHorizonFadeCurve.
- horizonFadeCurve.
- useMoon.
- moonRotationMode.
- useMoonYawCurve.
- moonYawCurve
- useMoonPitchCurve.
- * moonPitchCurve.
- useMoonLightColorGradient.
- moonLightColorGradient.
- useMoonLightIntensityCurve.
- moonLightIntensityCurve.
- useMoonColorGradient.
- moonColorGradient.
- useMoonIntensirtCurve.
- moonIntensityCurve.
- useMoonSizeCurve.
- * moonSizeCurve.
- useMoonHalo.
- useMoonHaloGradient.
- moonHaloGradient.
- useMoonHaloSizeCurve
- moonHaloSizeCurve.
- useMoonHaloIntensityCurve.
- moonHaloIntensityCurve.
- useStars.
- starsRotationMode.
- starsOffets-

- useStarsColorGradient.
- starsColorGradient.
- ***** useStarsIntesnityCurve.
- starsIntensityCurve.
- useStarsTwinkle.
- useStarsTwinkleCurve.
- starsTwinkleCurve,
- useStarsTwinkleSpeed.
- starsTwinkleSpeed.
- useAmbientSkyColorGradient.
- ambienSkyColorGradient.
- useAmbientEquatorColorGradient.
- ambientEquiatorColorGradient.
- useAmbientGroundColorGradient.
- ambientGroundColorGradient.
- useAmbientIntensityCurve.
- ambientIntensityCurve.
- fogMode.
- useRenderSettingsFog.
- useFogDensityCurve.
- ❖ fogDensityCurve.
- useFogStartDistanceCurve.
- fogStartDistanceCurve
- useFogEndDistanceCurve.
- fogEndDistanceCurve
- useFogColorCurve
- ❖ fogColorCurve.
- useExposureCurve.
- exposureCurve.

Properties.

- ❖ WorldLongitude.
- WorldRotation(private set).
- Hour.
- Minute.
- TimeString.
- CGTime.
- SunColor.
- SunSize.
- ❖ SunLightIntensity.
- SunDirection.
- SunMatrix(private set).
- ❖ IsSunLight(private set).
- **❖** SkyTint.
- AtmosphereTickness.
- ❖ NightColor.
- HorizonFade.
- ❖ MoonYaw.
- MoonPitch.
- **❖** MoonLightColor.
- MoonLightIntensity.
- MoonColor.
- ❖ MoonIntensity.
- ❖ MoonSize.
- **❖** MoonHaloColor.
- ❖ MoonHaloSize.
- ❖ MoonHaloIntensity.
- ❖ MoonDirection.
- IsMoonLight(private set).

StarsColor. StarsIntensity. \$ StarsTwinkle. ❖ StarsTwinkleSpeed. **❖** AmbientSkyColor. AmbientEquatorColor. ❖ AmbientGroundColor. **❖** AmbientIntensity. • FogDensity. FogStartDistance.FogEndDistance. ❖ FogColor. ***** Exposure.