

DayNight System

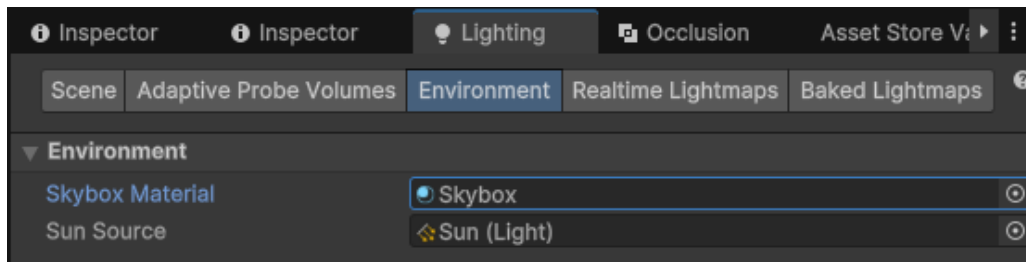
Thanks for downloading this package. Below you'll find the install instructions.

Installation

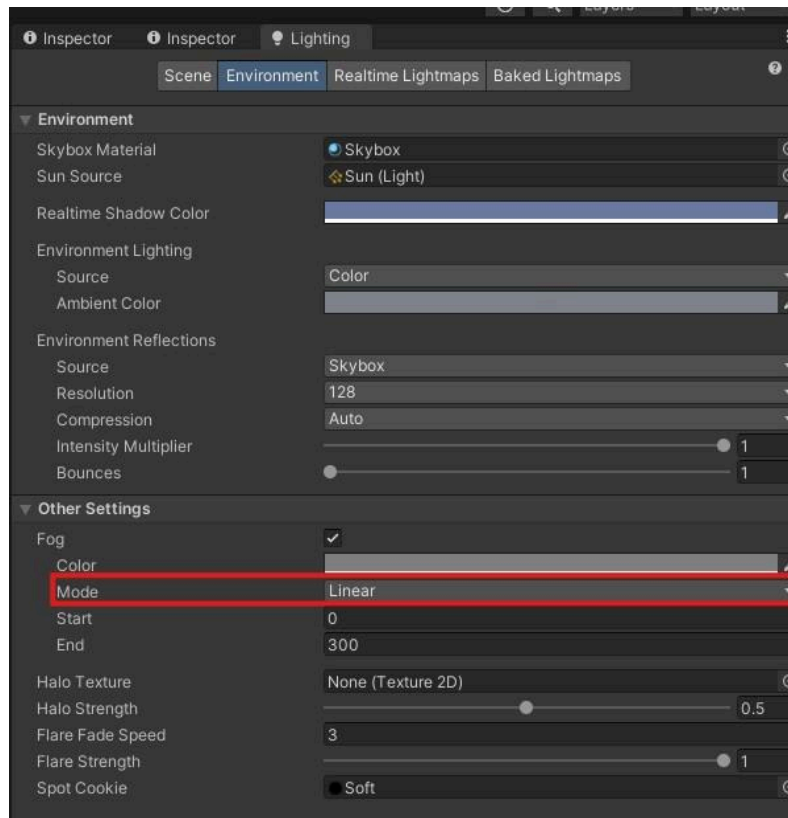
- 1) Drag the DayNightManager prefab into your scene:



- 2) Set the Skybox material in the Unity Lighting tab to either your own Material that uses the [DayNightSystem/TransitionSkybox](#) shader, or the included Skybox material in the Resources folder:



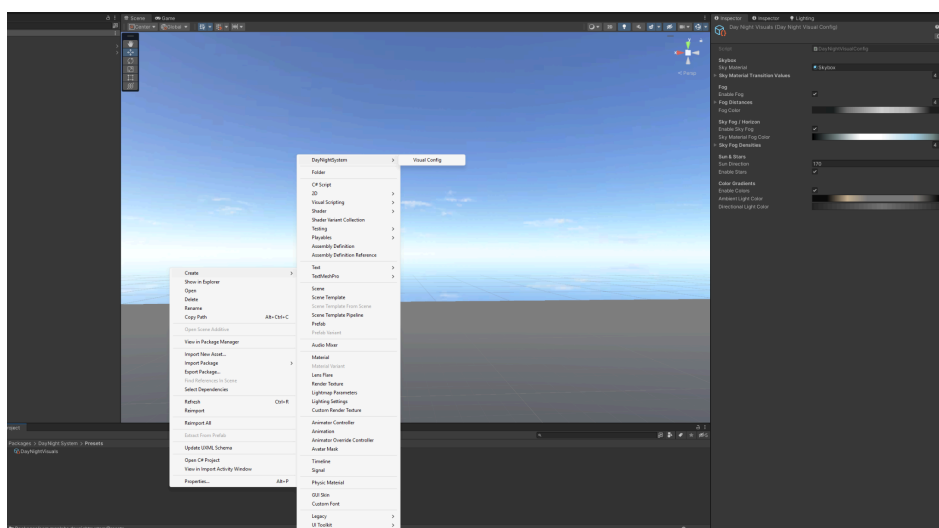
- 3) (Optional) Change fog mode to “Linear” if you want dynamic fog distances (in the Scene Lighting tab):



- 4) (Optional) Create your own visual preset:

You can add your own visual presets by creating the scriptable objects. You can find them in “Create/DayNightSystem/Visual Config”. You’ll find detailed instructions below.

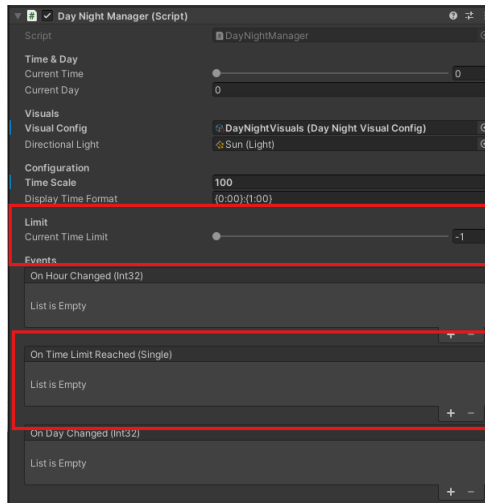
Make sure to assign your preset in the DayNightManager’s Visual Config field. **If you don’t want the visuals, leave the config field empty.**



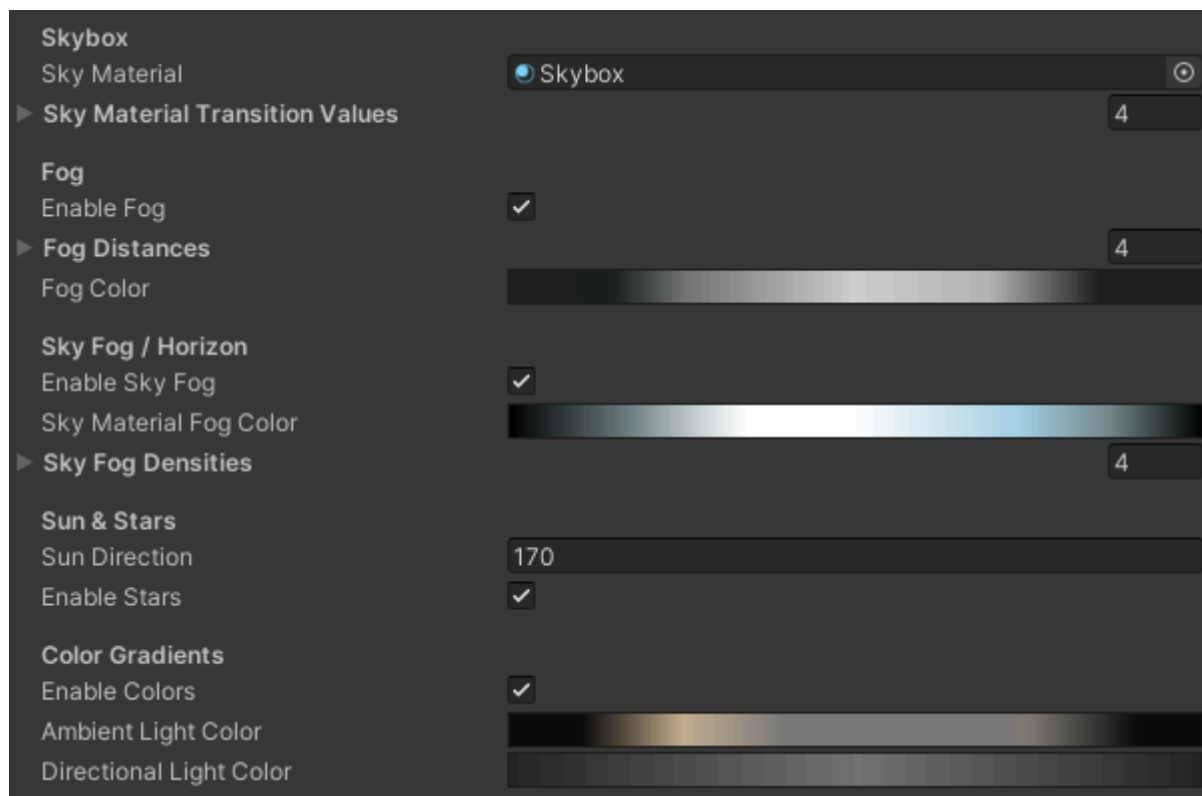
5) (Optional) Limit the Time

If you don't want a full day rotation, but instead have the time stop progressing at a certain time, you can set a limit. Once reached, the time won't progress further until you either call [ResetTime\(\)](#) on the DayNightManager (which resets the time back to the initial start time), or by setting a sooner time than the limit and then calling [ResetTimeLimit\(\)](#).

You can subscribe to the [OnTimeLimitReached](#) UnityEvent or [OnTimeLimitReachedAction](#).



Visual Config & Shader Config



SkyMaterial: The Skybox material, you can use the existing one in the **Resources** folder, or create your own. For the skybox visuals to work, the material requires the [DayNightSystem/TransitionSkybox](#) shader.

Sky Material Transition Values: Controls how the skybox transitions visually over the course of the day. Values correspond to points in the day (0 = midnight/dark, 1 = noon/light).

Enable Fog: Enable dynamic fog distance & color

Sky Material Fog Color: The fog/horizon colors of the skybox. The gradient represents the transition colors over the cycle.

Sky Fog Densities: The sky fog densities over the cycle (should be 4).

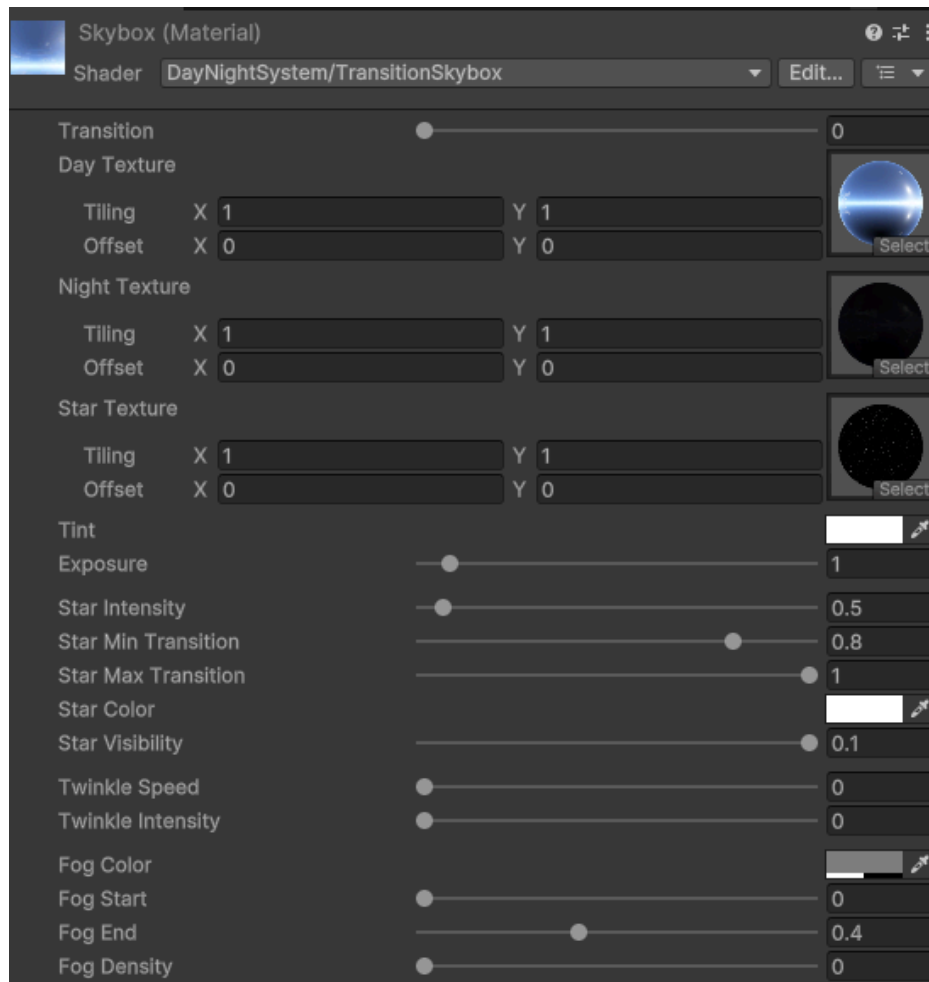
Sun Direction: The direction of the sun.

Enable Stars: Won't do much by itself; if turned off, it will disable stars in the skybox material, if on, it keeps your stars config.

Enable Colors: Enable ambient and light color changes

Ambient Light Color: The Unity Environment Light "Ambient Color" over a cycle.

Directional Light Color: The directional light / sun color over a cycle.



Transition: The transition amount between day and night (0-1)

Day Texture: The cubemap texture of the day sky

Night Texture: The cubemap texture of the night sky

Star Texture: The cubemap texture of the stars

Tint: Change the overall color

Exposure: Adjusts the brightness of the sky

Star Intensity: Controls the brightness of the stars (0-10)

Star Min Transition: The transition value where stars begin to appear

Star Max Transition: The transition value where stars are fully visible

Star Color: Tint color applied to the stars

Star Visibility: Controls the mix between the stars and the sky

Twinkle Speed: Speed of the star twinkle animation

Twinkle Intensity: Strength of the twinkle effect

Fog Color (Sky): The fog color applied to the skybox

Fog Start: The normalized height where fog begins to appear

Fog End: The normalized height where fog is at full strength

Fog Density: Controls how quickly the fog blends with the sky