LightShafts 2

MARK DUISTERS

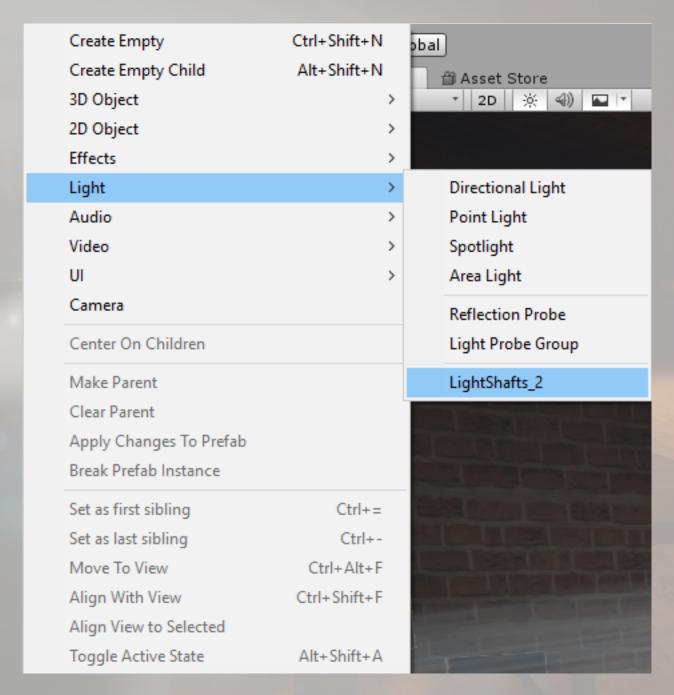


Getting started

System explanation

FAQ

Getting started



To place a LightShaft generator in the scene, go to: GameObject -> Light -> Light-Shafts_2. This will place a GameObject in the scene named "LightShaftGenerator".

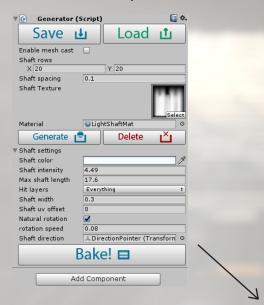
Inspector overview

You can save or load settings to/ from a preset file. Everything is saved except for "Shaft Texture", "Material" and "Enable mesh cast" switches "Shaft direction". Because they are between square or mesh cast Unity specific. mode. Square cast uses rows to spawn shafts (shafts = X * Y) and ▼ (#) Generator (Script) mesh cast uses each vertex as a spawn location. The actual mesh is Load Save ⊒Ťi never used. "Spacing" sets the distance Enable mesh cast between shafts and the scale of a mesh cast. Shaft rows Y 20 X 20 Shaft spacing 0.1 Set a texture for each shaft to use. Shaft Texture "Material" is a sharedmaterial. Generators with the same material will share settings. Select Material LightShaftMat Generate | Delete Generate will create shafts with above settings. Delete removes the ▼ Shaft settings current set. (Generate uses Delete before creating new shafts) Shaft color 4.49 Shaft intensity 17.6 Max shaft length Hit layers Everything + Adjusts the look of the generated Shaft width 0.3 shafts. These settings are updated Shaft uv offset 0 real-time during edit mode. **√** Natural rotation 0.08 rotation speed Shaft direction ↓DirectionPointer (Transforn ○ For optimal performance (or for mobile use) generated shafts can Bake! be baked into a single static mesh. This also means your system is no longer dynamic. To tweak settings, simply click generate again and re-Add Component bake your shafts.

Generator inspector component.

System explanation

Editor script



Shaft behavior script

```
//all public variables will use Generator pointers as

public Color shaftColor= new Color(255,197,96,255);//s

public float shaftIntensity=22.0f;//sets the shader's

//public Mesh shaftMesh;//users can set custom mesh

public float maxLength= 50.0f;//used in the raycast,

public LayerMask layerMask=1;//filter against what th

public float shaftWidth = 1.0f;//set the shat's width

public float shaftAdjustY = 1.0f;//set the Ytiling of

public Texture shaftTexture;//this texture will be pla

public bool autoRotation=false;// enable or dissable

public float autoRotZSpeed=1.0f;//after Z is randomly

public Transform shaftDirection;//will be used to ori

Material shaftMat; //helper variable to acces shared m

float randomRotZ;//this value is randomized once in the
```

All variables are adjusted by pointer values in the Generator script.

The Shaft behavior script is attached to each shaft and makes sure all settings can be updated in real-time.

Generator script

The generator controls how shafts are spawned and to which shared-material + texture they belong.

It is also the container for the Shaft behavior pointer variables. Which in turn are made visible in the inspector through an editor script.

FAQ

How do I get started?

Simply go to GameObject->Light->LightShafts_2. This will place one generator in your scene.

What is the performance?

LightShafts 2 has been optimized to use as much sharedmaterials/meshes as possible. This makes it possible to use hundreds of shaft per generator. However even more performance can be squeezed out by baking the shafts into a single mesh (sacrifising dynamic features such as realtime collision). The latter is highly recommended for mobile/web platforms.

I have two generators, but both use the settings of the first one. Can I use multiple generators using different colors/textures?

The system uses sharedmaterials. Meaning if two generators use the same materials, they will get batched based on the first generator using said material.

In order for a generator to use a different color/texture, simply create a new material, assign the lightshaft shader and place this material in the material slot (see inspector overview).

Where is that cool LightShaft demo using the Adam movie interior? The demo itself is not included in the asset package because it is a full project. Which means it will adjust all your engine settings.

There only exist a Windows 64bit build of this scene, because the project folder got corrupted during build. The 64bit was the first only only build to succeed. I might redo this scene in the future for other platform builds. But for now, the school room will have to do.

Can I order a pizza?

No, but you are always free to contact me for help or other asset related questions! http://markduisters.com/contact/