SciFi Tesla Coil Documentation

Quick setup of the "Nanite" & "Lumen" on UE5

How to work with a sequencer?

What do I need to add to my character to make him interact with panels, buttons, doors, etc.?

Important Notice:

The Parallax Occlusion Mapping function has a negative effect on FPS. You can disable this function if you need to significantly increase FPS. (MI_MasterMaterial_Parallax & MI_MasterMaterial_DirtParallax > IsParallax = False)

Every blueprints with a light source has an IsLightShadow option. Disabling this option will significantly increase FPS.

❖ Quick settings:

1. Install these BP on your scene (BP_Controller & BP_TeslaCoil, BP_Platform)







2.In the BP_Controller settings (Details TAB), find the "Target Actor"



Choose BP_TeslaCoil or BP_Platform

If the BP_Controller does not work means "IsPower" parameter is turned off

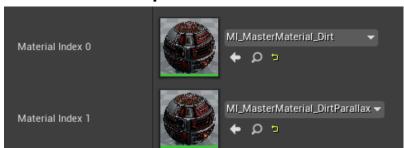
* BP_Controller Settings (Details TAB)



- IsPower If it is disabled you can not interact.
- TargetActor BP_Portal01 OR BP_Platform (in scene)
- **TriggerActorClass** Your player class with which will interact BP_Controller

- Skins Channels & Emission Channels Material settings (ID Map & Emission Map)
 (MI_MasterMaterial_Normal & MI_MasterMaterial_Parallax or MI_MasterMaterial_Dirt &
 MI_MasterMaterial_DirtParallax)
- Material Index 0,1,2 You can choose a normal material or a material with dirt. The material with dirt has a Vertex paint (see below)

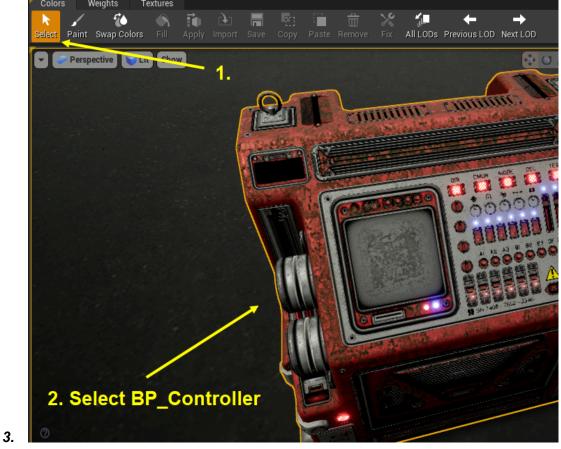
How to use the Vertex paint?

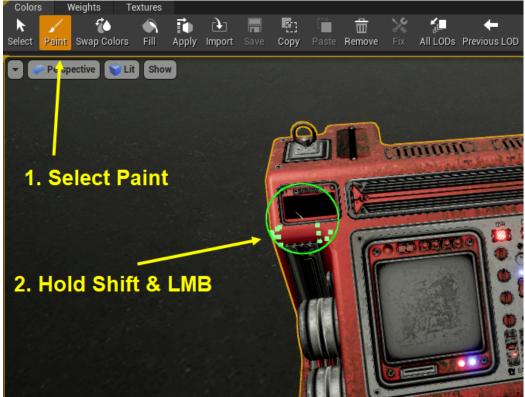


1.



2.





4.

❖ BP_TeslaCoil

MeshType (0-9) - change the appearance of BP_TeslaCoil
 Ability: 7 - fast coil 9 - insane coil

All behavior settings are stored in the Al (group)

- Extra Damage if MeshType = 9
- ScanInterval how often to scan the area

❖ BP_Platform

AttachActorClass - objects that can be moved by the platform

RailMesh - Static mesh

Platform_Lenght - Length of the rails

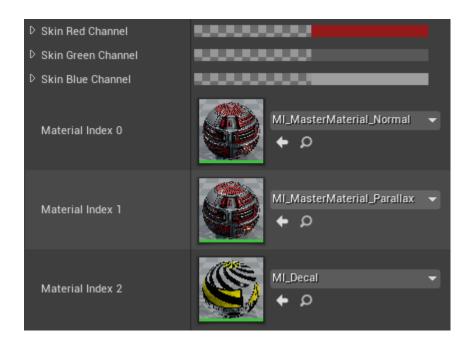
IsSmoothMove - Smoothness of the platform movement

Platform_Speed ...

Platform_StartLocation - Starting point of the platform

❖ BPC_SkinManager

The component that is needed to change these parameters:



The component changes the parameters in M_MasterMaterial

M_MasterMaterial (Instances)

T_Atlas_ACH (In "Textures" dir):

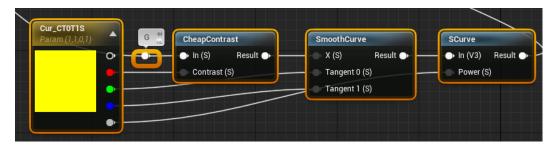
- A Ambient occlusion (RED Channel) AO Settings in mastermaterial
- C Curvature Channel (GREEN Channel) Curvature settings in mastermaterial
- H Height Channel (BLUE Channel) Parallax Settings in mastermaterial

AO (Ambient occlusion) (T_Atlas_ACH)

AO_IDInt - (T_Atlas_ID RGB) - Ambient occlusion intensity
AO_PMMM - Power + Multiply + Clamp Min + Clamp Max

Curvature (T_Atlas_ACH)

Cur_IDInt - (T_Atlas_ID RGB) - Curvature intensity
Cur_CT0T1S:



Noise_PMMM - Power + $\underline{\mathbf{M}}$ ultiply + Clamp $\underline{\mathbf{M}}$ in + Clamp $\underline{\mathbf{M}}$ ax

Parallax (T_Atlas_ACH)

The standard function is used (ParallaxOcclusionMapping)

