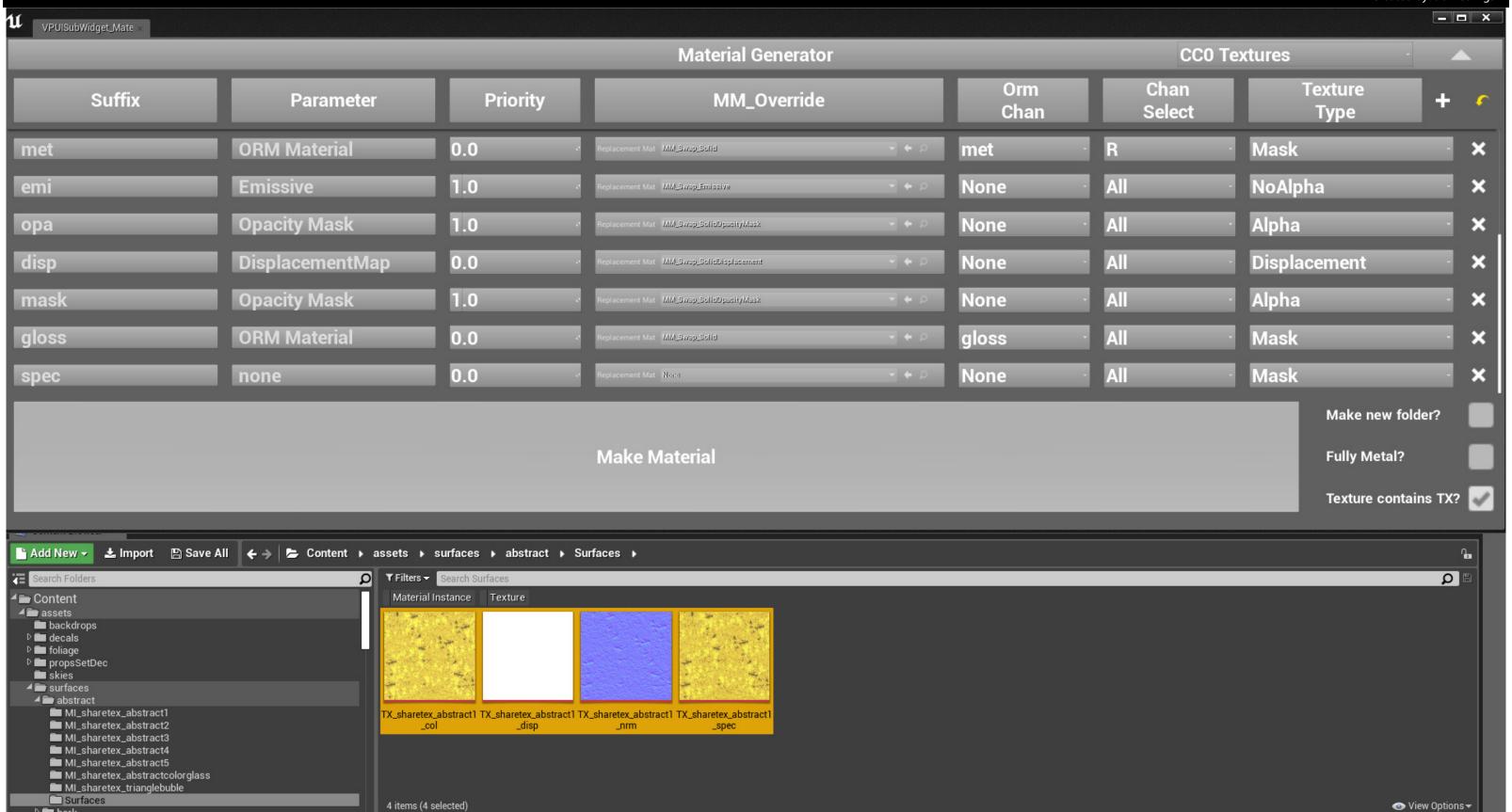


This tool can be found in Content->ThirdParty->SwappableMaterials->Material Generator
It is designed to create material instances from groups of textures that follow a naming convention: TX_TextureName_parameter or TextureName_parameter Right click the Editor utility widget and select run at the top to get started.

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With the tool open, select a preset (top right), find a group of texture files you wish to make a material from and press make material.

If you wish the material to be created in a new folder named after the material, tick Make new folder? If the material should be metal and does not have a metallic map, tick fully metal?

At the end of this guide you will find a section on customizing parameters to suit the specified naming convention.

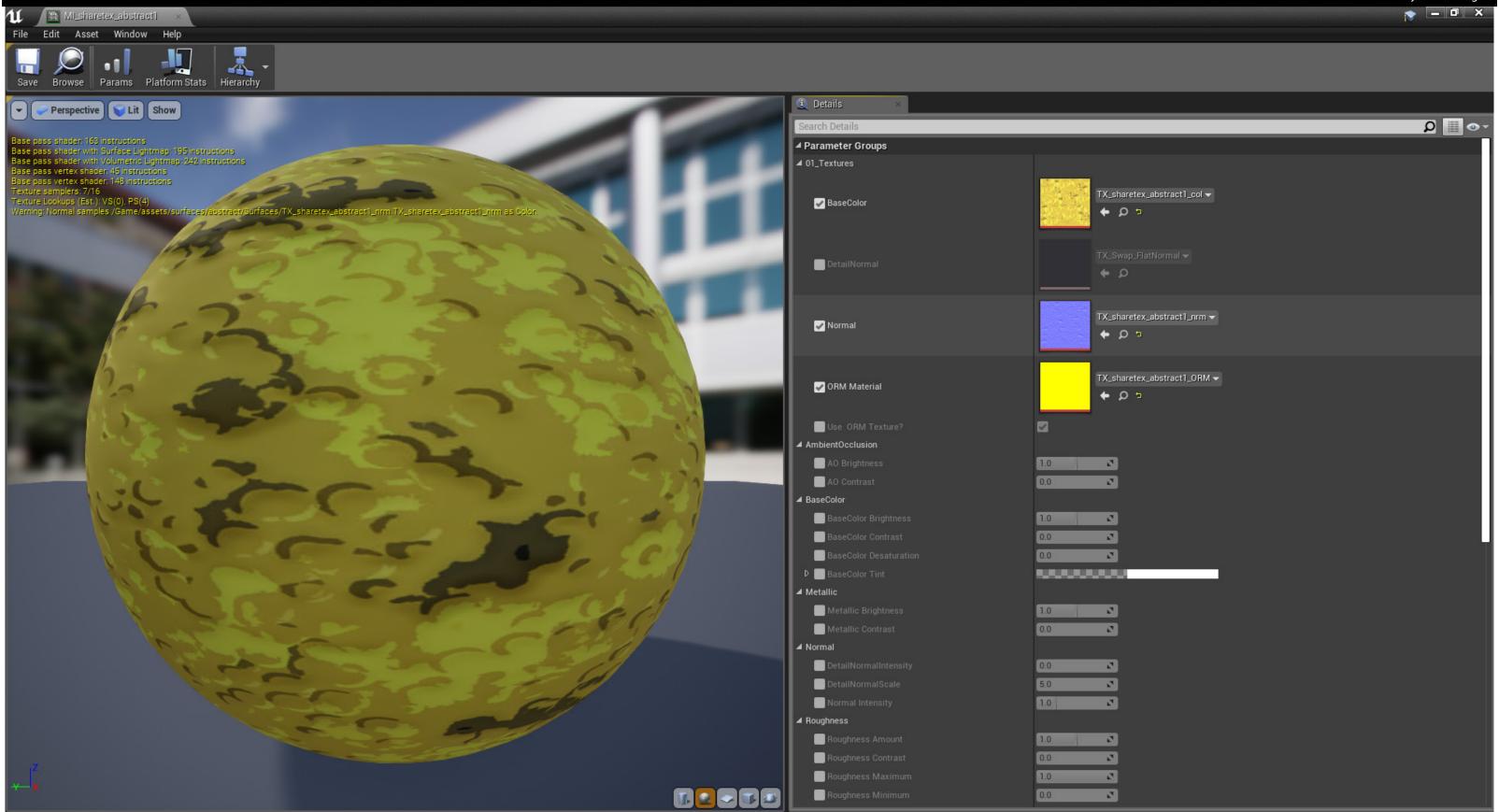
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The tool will create a material instance in the desired folder and an ORM texture if the textures meet the prerequisites.

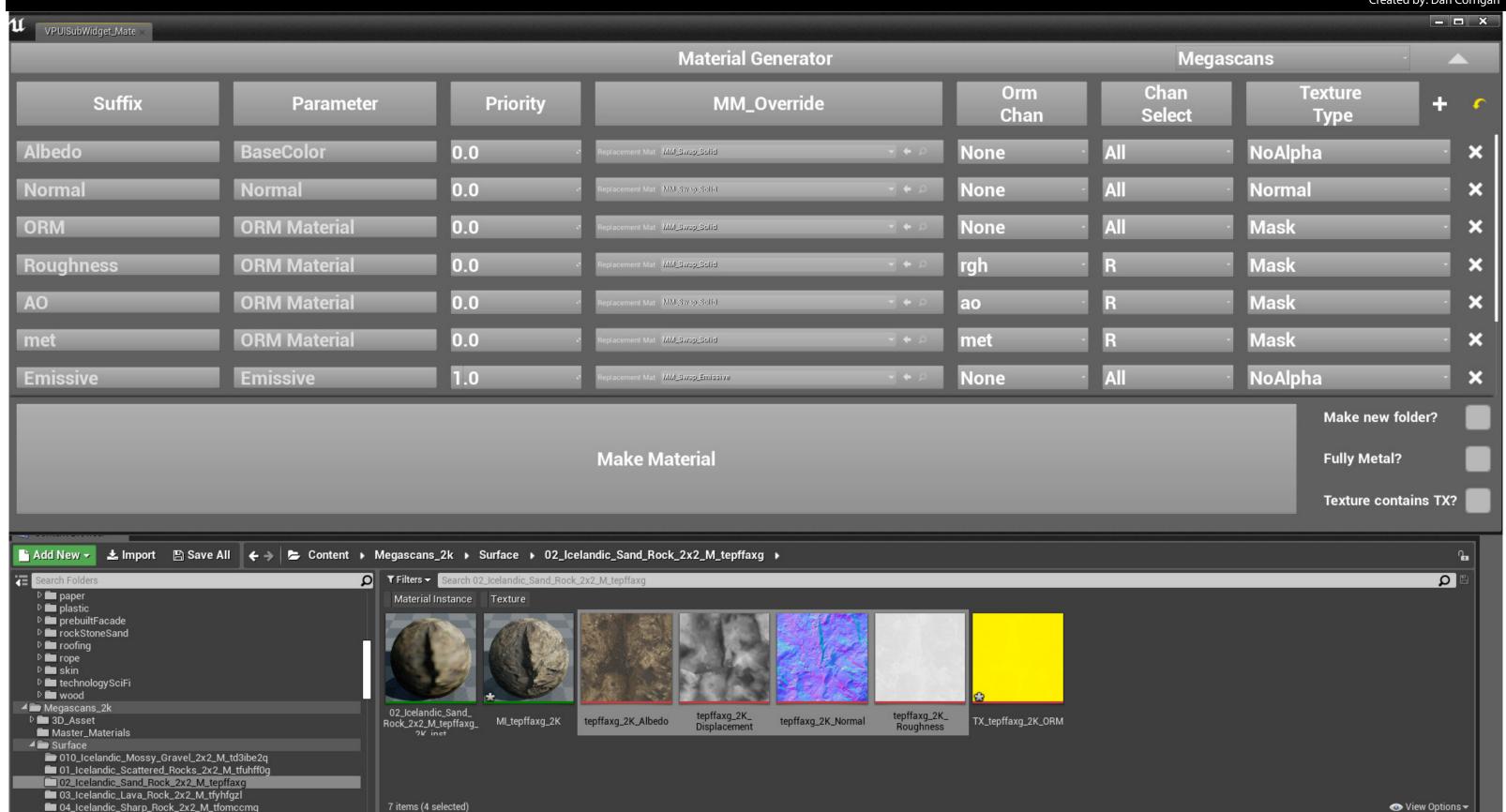
There is currently a bug where the tool will not create an ORM texture the first time around. Running make material several times will solve this issue, and it should not show up again until you close the widget.

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The material instance created will have the maps populated to the correct locations.

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This tool has a megascans preset built in to generate a brand new material instance based off a megascans surface.

In the future I will add a button to convert a selected material to a swappable material so you do not end up with duplicate material instances.

Note that since megascans textures do not start with TX, the preset unchecks Texture Contains TX?

Material Generator Version: 1.0 17 November 2019 Created by: Dan Corrigan MI_tepffaxg_2K* File Edit Asset Window Help 基 Browse Params Platform Stats Hierarchy Details Lit Show Perspective ρ 🏢 💿 se pass shader with Surface Lightmap; 195 instructions ader with Volumetric Lightmap: 242 instructions N vertex shader: 45 instructions vertex shader: 148 instructions 02_lcelandic_Sand_Rock_2x2_M_tepffaxg/tepffaxg_2K_Normal.tepffaxg_2K_Normal as Co Create New Asset Material Material Instance Edit Сору Clear D. MM_Swap_OutlineIntersections Material MM_Swap_SkySphere MIM_SWap

Material MM_Swap_SkySphereShadowmask
Material → Save Sibling 🖺 🕽 Save Child MM_Swap_Solid Material MM_Swap_Solid_Puddles **▲** General Material MM_Swap_SolidbumpOffset Material Phys Material MM_Swap_SolidDirty 1,268 items (1 selected) View Options
 ▼ /Game/ThirdParty/SwappableMaterials/MasterMaterials/MM_Swap_Solid D Lightmass Settings D Material Property Overrides ▲ Previewing Preview Mesh

For any material instance generated by this tool, you can change the parent to another swappable material and all the texture maps should convert over.

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		Material Generator				CC0 Textures		- 🔺
Suffix	Parameter	Priority	MM_Override		Orm Chan	Chan Select	Texture Type	+ •
net	ORM Material	0.0	Replacement Mat MM_Swap_Solid	√ + ρ	met	R	Mask	×
emi	Emissive	1.0	Replacement Mat MIM_Swap_Emissive	▼ ₽	None	- All	NoAlpha	×
рра	Opacity Mask	1.0	Replacement Mat MM_Swap_SolidOpacityMask	₹ ₽	None	All	Alpha	×
disp	DisplacementMap	0.0	Replacement Mat MM_Swap_SolidDisplacement	₹ ₽	None	All	Displacement	×
nask	Opacity Mask	1.0	Replacement Mat MM_Swap_SolidOpacityMask	₹ + ₽	None	- All	Alpha	×
gloss	ORM Material	0.0	Replacement Mat MM_Swap_Solid	₹ ₽	gloss	All	Mask	×
spec	none	0.0	Replacement Mat None	₹ € ₽	None	All	Mask	×
							Make new f	older?
			Make Material				Fully Metal?	
							Texture con	tains TX?

- The suffix and parameter fields dictate what texture gets placed where in the new material instance. The suffix of a texture is the last bit of the name after the last underscore: TX_name_suffix
- The MM_Override parameter will allow you to change the parent material. If the priority field is higher than the one found by all previous textures, the generated material will use the MM_Override as its new parent. For instance, for the settings above, the material parent defaults to MM_Swap_Solid, however, if the group of textures you have selected includes an _emi, the parent will change to MM_Swap_Emissive since it has a priority of 1, higher than the default of 0
- Orm Chan dictates whether or not this texture should be baked into a combined map. This dropdown gives options for roughness, metallic, ambient occlusion, gloss (roughness inverted), alpha (will create an _opa map) and mask (_opa map inverted)
- Chan Select is used with ORM Chan and will allow you to choose which channel (RGBA) from the source texture is used in the final baked texture. Useful if you have RMA textures to convert to ORM, or Alpha channels in your Base Color
- Texture Type dictates the compression settings of the final texture. These compression settings allow for less texture memory to be taken up, especially when you compress without alpha
- Next to texture type is a plus to add a new line and each line has an x to remove it. The yellow arrow next to add will revert the tool back to the currently selected preset
- · Next to Make Material at the bottom, there is an option to place all textures and the material instance into a nested folder
- The fully matal parameter will bake a white image into the metallic channel instead of the default black into the ORM. Useful if you are converting megascans metals which do not have a metallic texture