FIRST PERSON ANIME ARMS

ProjectVero, 2022

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Scope and Limitations

The scope of this asset is to provide 6 different first person anime arm meshes with 4 different types of anime shaders and 2 outline materials.

No animations are included. The textures included are final. If you need different textures, it would be expected that you will create them yourself using the UVs.

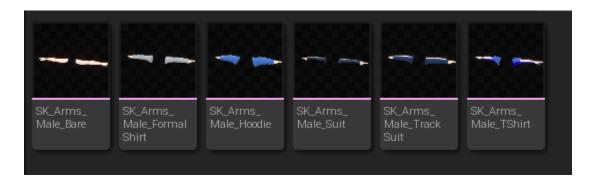
Content

Skeletal Meshes

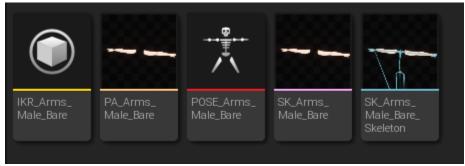
This asset contains the follow 6 skeletal meshes:

- Bare arms
- T shirt arms

- Fancy shirt arms
- Suit arms
- Hoodie arms
- Tracksuit arms



All skeletal meshes are equipped with an IK RIG asset in 5.0 and in both 4.27 and 5.0 a POSE asset for T and A pose sets for easy retargeting of animations.



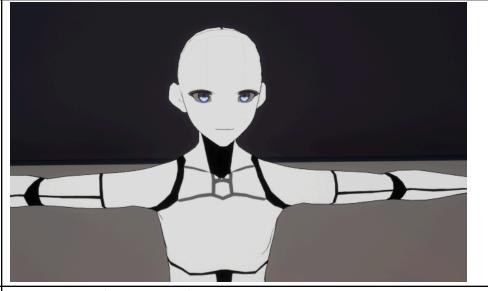
Materials

For more information on the materials, see the Materials - In depth section.

All shaders prefixed with M_ are materials whereas those prefixed with MI_ are material instances. It is highly recommended to work using the material instances for quick and easy modifications rather than modify the parent material and have it recompile each time.

This package includes 4 surface shaders:

Name	Description
M_SimpleAnime	This is a simple emissive material that is unlit.
	It does not interact with light and does not have shadows.



M_ToonBase

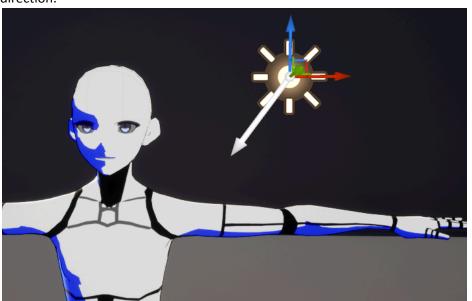
This is the base for the next 3 following materials.

MI_Unlit_Base

Uses the master material to process textures and normals.

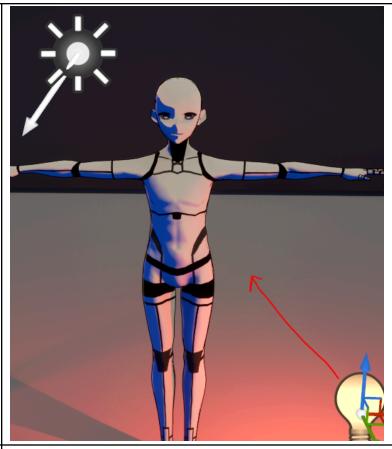
This material will not interact with light.

This material will generate fake shadows that are based on the directional light direction.



MI_Lit_Base

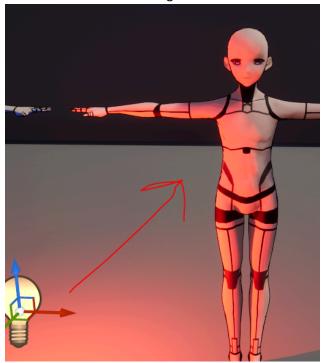
Uses the master material to process textures and normals. Will interact with lights.



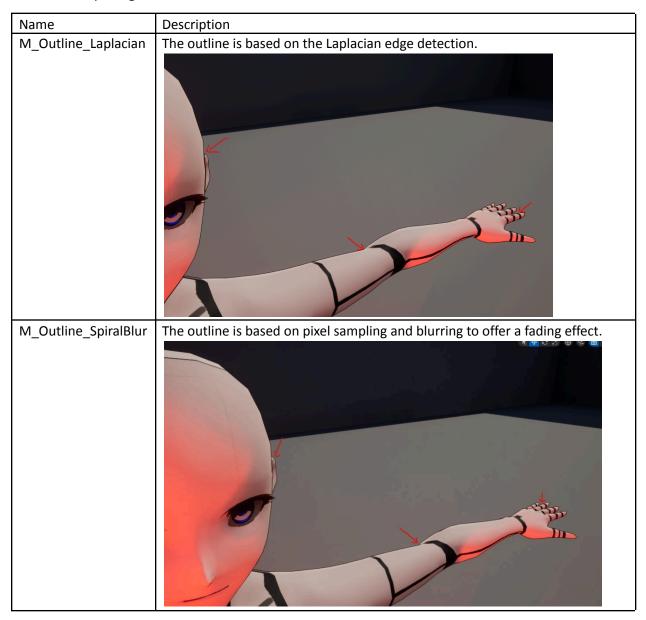
M_SSS_Base

Uses the master material to process textures.

Will emit textures similarly to the M_SimpleAnime but will also interact with light other than the directional light.



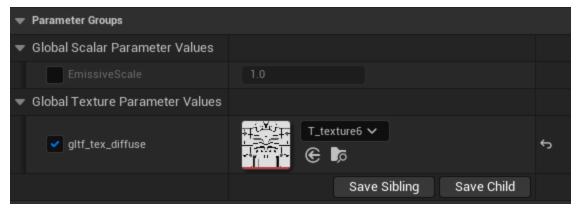
This package also includes 2 outline shaders:



Materials - In depth

M_AnimeSimple

This material is as described previously. It is an unlit emissive material that will show off a texture. Normals are not computed and it does not interact with lights nor generates shadows on itself. Example:



The only parameters you have are the emissive scale (how emissive you want it) and the texture.

MI AS Base

Derived from M_AnimeSimple, use the parameters to customize.

M ToonBase

This material was inspired and improved upon from another anime-like material with considerable simplification and performance improvement. Although it can be used (as an instance) to generate just about anything, I created 3 material instances based on the master material that are setup for the lit, unlit and subsurface lighting types of shaders.

To use the material instances, you can actually make instances of instances and change the textures so as to keep the originals intact and work on the copies.

Compared to other materials, this one was severely optimized in terms of performance.

The material is quite complex and some options are most of the time switched on.

00 StaticSwitchParam

These are basic switches as to what you want and do not want to use as features. Turning things on will cost more performance but look prettier.

01_StaticSwitchParam_Extras

These are extra features you can use to add flair. For instance, you can use a second shade color instead of a singular shade.

02 Levels

Both options allow for higher levels of opacity and brightness.

03_ToonShader

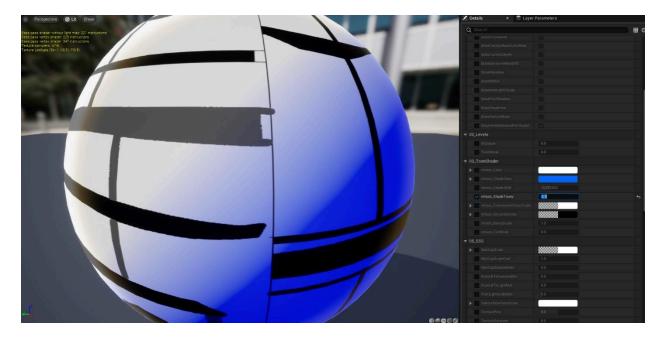
Probably the most important section.

Color will add an additional tone of color to the emissive texture color.

ShadeColor will dictate the color of the shadow.

ShadeShift determines how much of the surface is covered in shade.

ShadeToony determines whether or not you want the shade to be crisp (1) or bleeding (0).



TranslucentColorScale is as the name implies and is used for translucent materials (typically eyes or brows or hairs).

EmissionColor adds another layer of color.

Bumpscale is a coefficient for normal map scale.

Cullmode can either be 0 (two-sided), 1 (front face) or 2 (back face).

04_RimLight

All settings for rim light. This is not turned on by default.

05 SSS

This is for subsurface lighting. All settings will drive the way it looks, there isn't much to describe.

06 Shadows

There is a shadow logic if you have customized shadows however, it is not turned on by default.

Everything else

Every other Global Scalar Parameter Value is a shift, offset or alpha to play around with if you want to have minor changes incurred.

MI Unlit Base

This material will use the emissive channel to show the colors (texture) and will compute the directional light and normal to show shadows. You can use the shadow creep feature to dictate where the shadow starts and stops. The shadow will appear opposite of the directional light.

You can also control the level of color shading of your texture.

Finally, you can control the color of your shadow.

This material will not reflect any other lighting such as point lights.

MI Lit Base

Unlike the unlit variant, this material does not generate its own shadow but uses ambient lighting for shadows. It will also react to light sources.

MI SSS Base

Subsurface lighting will act as the MI_Lit_Base material in that the textures are shown subsurface light. The model will however be able to receive light from other sources.

Outlines

Two materials are provided for outlines and they are Laplacian edge detection based or spiral blur. The spiral blur is the most expensive one but can generate blurry outlines whereas the Laplacian edge detection is very standard and low cost.

All outlines were relegated to the custom render depth pass so to enable it, select your mesh and search for "render" and check this checkbox:

