





(RealToon Shader)

It's an AAA Anime - Toon Shader/Cel Shading Shader for Unity3D. The goal/aim of this shader is to achieve real Anime/Toon look in RealTime 3D.

You can also achieve any style/stylized you want, more than Anime/Toon look.

All Real time lights can be use, from real time Directional Light, Spot, Point to real time Area Light.

It is possible to use RealToon in HDRP's DXR/Ray tracing mode. Realistic + NPR/Non-Photorealistic are possible with the combination use of Unity's Shaders + RealToon Shaders.

You can use RealToon and other shaders, together.

Use RealToon Shader for games, animations/film, illustrations/art, VTuber, Virtual Chat Avatar Shader and any projects.

RealToon shader can also be use on projects made, Mobile (Android/iOS) and Game Console (Xbox, PlayStation and Switch).



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[Getting Started]

- Before you start, you'll need to unpack the shader package that corresponds to your project render pipeline, before that there are some things you need to know about Unity's Render Pipeline. If you already know it, just skip to the **Unpacking the Shaders** section.
- Firstly there are 2 types of Unity Render Pipeline, Unity Built-In/3D Render Pipeline and Unity SRP/Scriptable Render Pipeline (URP HDRP). Under SRP there are 2 Unity made SRP, URP/Universal Render Pipeline and HDRP/High Definition Render Pipeline.
- *Unity Built-In/3D Render Pipeline is the old unity render pipeline.
- *Unity SRP/Scriptable Render Pipeline (URP HDRP), is the new and modern render pipeline.
 - *URP/Universal Render Pipeline Formerly named LWRP and It is universal and focuses on low and high quality visuals that can be deploy to all devices.
- *HDRP/High Definition Render Pipeline Focuses on advance high quality visuals and can be deploy to modern devices that supports compute and modern advance features and visuals.
- Now you know what those unity render pipelines are, so we can start unpacking the shader you need. All the shader packages are in the folder **RealToon Shader Packages**.

[Unpacking the Shaders]

*Recommended Unity versions for Built-In RP/3D:

From **Unity 5** to current latest unity version.

*Recommended Unity and SRP Versions:

[RealToon LWRP] - Unity 2018 and LWRP V4.0.0 or latest version.

[RealToon URP] - Unity 2019.3.0 to newer versions and URP V7.1.1 or latest version.

[RealToon HDRP] - Unity 2019 to newer versions and HDRP V7.2.0 or latest version.

*If your project is 3D or Built-In RP:

- 1. Go to folder RealToon Shader Packages -> Built-In RP [3D].
- 2. Double click **RealToon Built-In RP [3D]** package to unpack.

If you are using the latest unity version, double click - unpack the latest one with the 'Later' word on it.

3. Click **Import**.

*If your project is Universal Render Pipeline or High Definition RP:

- 1. Go to folder RealToon Shader Packages -> SRP (LWRP URP HDRP).
- 2. Open the folder that correspond to your project render pipeline.
- 3. Double click unpack the version you need or the latest one with the 'Later' word on it.
- 4. Click **Import**.
 - 4 RealToon (MJQ Studio Works © 2016 2025)



[How to use]

A. How to use RealToon Shader:

- a. Create a material by pressing mouse button **Right** on the **Project** window/panel.
- b. Go to **Create -> Material**.
- c. Name your material then press keyboard key **Enter**.
- d. Click your created material.
- e. Go to **Inspector** window/panel then change the **Shader** by left mouse button - click the drop down menu.
 - * For 3D/Built-In RP: Go to RealToon -> Default and select Default.
 - * For Universal Render Pipeline: Go to Universal Render Pipeline -> **Default** and select **Default**.
 - * For High Definition RP: Go to HDRP -> Default and select Default.
- f. Drag your created material to the object you want to apply.

B. How to use RealToon Effects (Built-In RP/3D):

- a. Select a camera.
- b. Add component -> RealToon -> Effects.
- c. Select the effect/s you want to use.

C. How to use RealToon Tools:

- a. Select an object or an empty game object
- b. Add component -> RealToon -> Tools.
- c. Select a tool you want to use.



[RealToon Shaders]

	(RealToon Shaders for Built-In RP/3D)		(RealToon Shaders for SRP)
A. Defa	ault		
a.	Default		
	* The default RealToon shader.		
b.	Fade Transparency	A.	LWRP
	* A transparent shader.		a. Default
	* It also has the functions and feature of		* The default RealToon shader.
	the Default shader.		
	* It can't receive shadow		b. Fade Transparency
	but can cast shadow.		* A transparent shader.
			* It also has the function and
c.	Refraction		features of the Default Shader.
	* A Refraction shader.		* It can't receive shadow but can
	* It can't receive shadow		cast shadow.
	and can cast shadow.	_	
		В.	URP
	ault - Tessellation		a. Default
a.			* The default RealToon Shader.
	* The default RealToon shader.		* It has the transparent feature.
	* With tessellation.		* The transparent feature can receive and cast shadow.
_	Fodo Transparance		
D.	* A transparent shader.		* With lightmap. * With 2 available on shader
	* It also has the functions and feature of		outline to be use,
	the Default shader.		Traditional Outline and
	* It can't receive shadow		Screen Space Outline.
	but can cast shadow.		sercen space danne.
	* With tessellation.	C.	HDRP
			a. Default
c.	Refraction		* The default RealToon Shader.
	* A Refraction shader.		* It has the transparent feature.
	* It can't receive shadow		* The transparent feature can
	and can cast shadow.		receive and cast shadow.
	* With tessellation.		* With DXR/Ray Tracing.
			* With 2 available on shader
C. Lite			outline to be use,
a.	Default		Traditional Outline and
	* Lite version of the Default shader.		Screen Space Outline.
b.	Fade Transparency		
	* Lite version of the Fade Transparency		

shader.



[RealToon Tools]

*Custom Shadow Resolution Tool

- This tool is use for customizing the light source shadow resolution. Can only be use on **Built-In RP/3D**.

Settings

Value (Default: 2048)

- It's the resolution value of the shadow map

Final Resolution (Default: No Default Value)

- This is the shadow map final resolution. This is basically x2 value of the value you entered.

Reset (Default: Unchecked)

- To reset he settings - value

*Frame By Frame Rendering Tool

- Frame by Frame Rendering is a simple tool to render each frame to PNG File. (Use For Animation & Illustration/Art)
- Two types of Frame By Frame Rendering Tool script:
 - 1. Frame by Frame Rendering (Default) Auto Render when press play.
 - 2. Frame By Frame Rendering (Manual) Manual Render, frame by frame.

Settings

Path Folder (Default: Rendered Files)

- A path/location to where to save the PNG Files.

[Note]

*If you put the name folder only, it will be created to your Unity3D root project folder.

*If you want to save the files to a different location/drive, include the drive letter, Example C:\PNGFiles.

*If this field is empty, it will create the folder **Rendered Files**.



PNG File Name (Default: Frame)

- The file name

[Note]

*If this field is empty, it will name the file Frame.

Frame Rate (Default: 24)

- The frame rate of the frame by frame session.

Start Frame (Default: 0)

- The beginning of the frame.

End Frame (Default: 0)

- The end of the frame.

Single Frame Rendering Mode (Default: Unchecked)

- Render a single image only.

[Note]

- *This will ignore Frame Rate, Start Frame & End Frame.
- *It will only render Frame 1.
- *If Checked/Enabled file name will be named "YouFileName Hour_Min_Sec".
- *If Uncheck/Disable file name will be named "YouFileName FrameNumber".

Picture Mode (Default: Unchecked)

- Render a single image only.

[Note]

- *This option is only available on the **Frame by Frame (Manual)** version.
- *This is similar to **Single Frame Rendering Mode**.

Information - This section will only display information about the rendering and operations.

Last Rendered Frame (Default: No Default Value)

- Display the last rendered fame.

Info (Default: Empty)

- This is the shadow map final resolution.

*Smooth Object Normal – Helper

- A helper script for the RealToon Feature Smooth Object Normal.
- This script will help the **Smooth Object Normal** to follow the object's animation.

Settings

Intensity (Default: 0)

- **0** means object's default normals while **1** is the full smoothed normals.

Material (Default: Empty)

- A material that uses **RealToon - Smooth Object Normal** feature.

Object Helper (Default: Empty)

- An object to help adjust the smoothed/ignored object normals.

Show Normal (Default: Unchecked)

- This will the display the object's/smoothed normals.



*ShadowT SDF Mode – Helper

- A helper script for the **RealToon ShadowT SDF Mode.**
- This script will help the **ShadowT SDF**.

Settings

Material (Default: Empty)

- A material that uses **RealToon Shader**.

Object Helper (Default: Empty)

- A material that uses **RealToon – Smooth Object Normal** feature.

*Swap Shader To RealToon - Tool

- A tool to swap from VRoid VRM shader or Unity shaders to RealToon shader.
- It supports all Unity Rendering Pipeline shaders Built-In/BiRP, URP and HDRP.

Settings

From Shader

- From what shader is the selected material/s.

VRoid | VRM Options

*Force Unlit:

This will make the material to unlit look, no lighting and shadow.

It will enable RealToon's Hide Directional Light Shadow, Hide Point, Spot and Area Light Shadows/Hide Point and Spot Light Shadows options, enable Selflit feature and adjust the selflit Power option, disable Receive Environmental Lighting and GI option, disable Enable Punctual Lights/ Enable Additional Lights option, enable use Traditional Light Blend option, disable Normal Map feature and Self Shadow feature.

*Force Transparent Material To Cutout:

This will force all transparent material to cutout.

It will enable RealToon's Transparent Mode then Cutout feature and set the Cutout to 4.0.

* Enhance Light Highlight Color Intensity:

This will enhance the light highlight color on the material/object.

It will adjust the **RealToon's Highlight Color Power** option.

On Built-In/BiRP, this is not available if the Project Color Space is Gamma.



*Include Shade/Shadow Color:

This will include the selected **VRoid | VRM Shade/Shadow** color.

It will copy the selected VRoid VRM Shade/Shadow color to RealToon's Overall Shadow Color options.

On URP, It will also adjust the Overall Shadow Color Power.

*Light Affect Shadows:

This will let the light intensity and color affect shadows.

If not enabled, The light will not affect the shadow and it will prevent overexpose shadow color when there are more lights on the scene and high intensity light value.

This will enable **RealToon's Light Affect Shadow** option.

*Disable Received Shadows:

This will disable received shadows from other objects including received self cast shadows. It will disable RealToon's Hide Directional Light Shadow, Hide Point, Spot and Area Light Shadows/Hide Point and Spot Light Shadows options.

*Include Emission:

This will include **VRoid | VRM** Emission.

It will copy the Emission Color and Emission Map(if present) to RealToon Selflit Color and Mask. Take note: some **VRoid | VRM** default configuration will use **Emission** to light the character or to make it unlit, leave the **Include Emission** option disabled if you didn't configure the **Emission**.

*Use Emission Map and Color as Gloss Texture:

This will use the **Emission Map(***if present***)** and **Emission Color** as Gloss.

It will enable the **RealToon's Gloss Texture** feature then use the **Emission Map** to it and copy the Emission Color to RealToon's Gloss Color options.

*Force Enable Rim Light And Use White Color:

This will force to use **Rim Light** and use **White** color to it.

It will enable RealToon's Rim Light feature then set the Rim Light Color option to White.

*Enable Global Illumination Shade:

This will enable the GI soft shade look.

It will adjust **the RealToon's GI Shade Threshold** option to 1.

*Global Illumination Flat Shade:

This will make the GI shade to look flat or cel shade.

It will enable **RealToon's GI Flat Shade** option.

Unity Options

*Light Affect Shadows:

This will let the light intensity and color affect shadows.

If not enabled, The light will not affect the shadow and it will prevent overexpose shadow color when there are more lights on the scene and high intensity light value.

This will enable **RealToon's Light Affect Shadow** option.



Compatible Shaders			
VRoid VRM	Unity Built-In	Unity URP	Unity HDRP
VRM VRM10 VRM10 (URP)	Standard Standard (Specular setup) Unlit/Color Unlit/Texture Unlit/Transparent Unlit/Transparent Cutout	Complex Lit Lit Simple Lit Unlit Baked Lit	Lit Lit Tessellation Unlit

*RealToon Shader Cache - Tool

- A tool to reduce or clear cached **RealToon Shader**.
- Useful for after **Update RealToon Shader** or **Re-import RealToon Shader**.

Settings

Reduce/Clean Cached RealToon Shader

- This will reduce/clean/clear cached RealToon Shader.

Re-import RealToon Shader

- Re-import RealToon Shader folder and contents.
- This will cache RealToon Shaders again.



[RealToon Tools Tips/Notes/How to Use]

(Frame By Frame Rendering)

[For Frame By Frame Rendering Both (Default & Manual)]

- 1. You can pause rendering by click pause button.
- 2. Stop render immediately by click play button again.
- 3. You cannot start render if the folder has files on it so you need to change the Path Folder to another location or folder. (Applies only to Non Picture Mode & Single Frame Mode)
- 4. You can start render even if the folder has files on it. (Applies only to Picture Mode & Single Frame Mode)
- 5. You can create folder by just putting a folder name that is not yet exist in the current location/path. (Applies to Path Folder)
- 6. To set the resolution just set it in the Game view or Game panel.

For Frame By Frame Rendering (Manual)

- 1. Click **Render** to start render, once clicked it will turn back to unchecked means render 1 frame not continuous unlike Frame By Frame Rendering (Default).
- 2. You can overwrite a specific saved frame by setting the Frame Number to the frame number you want to overwrite then click Render. Be sure that frame number is in the folder. Be careful not to double the **Render** or else it will overwrite the next frame number that is already saved.

For Frame By Frame Rendering (Default)

- 1. Click play button to start render, once the button is clicked Current Frame will start moving or display the current frame once the Current Frame reached the Start Frame number it will start rendering then later if Current Frame reached the Start Frame number it will stop render. To completely end rendering click play button.
- 2. If you render a scene with timeline, set Frame Rate to the frame rate of timeline. Example "Timeline frame rate is 60 = Frame By Frame Rendering (Default) Frame rate is also 60". If the two is not equal the output is not synchronized especially if you edit it in your Video Editor Software or Compositor Software.



(For Importing PNG files to your Video Editor or Compositing Software)

- 1. Import PNG files as PNG Sequence or Image Sequence, be sure your video editor or compositing software has this features or option. Be sure PNG files are numbered frames like "Frame 0002 to Frame 9000 or higher".
- 2. Change the imported **PNG Sequence** or **Image Sequence** file frame rate to the frame rate you set in your Frame by Frame Rendering Settings.

(Swap Shader To RealToon - Tool)

[How to use]

- 1. Click Window then go to RealToon -> Swap Shader To RealToon.
- 2. Select the **Materials** on your project window/panel.
- 3. Select from what **Shader**.
- 4. Select the options you need if available.
- 5. Click Click To Swap To RealToon Shader.
- 6. All materials shader are now swap to **RealToon Shader**.

(Smooth Object Normal – Helper)

[How to use]

- 1. Select an Object/Model.
- 2. Click **Add Component** and go to **RealToon -> Tools** and select **Smooth Object Normal Helper**.
- 3. Select again the Object/Model and go to **Smooth Object Normal Helper**.
- 4. Assign a material that uses RealToon Shader to the Material slot, this will automatically enable Smooth Object Normal feature.
- 5. Change the **Intensity** to full right.
- 6. Enable **Show Normal**, to display the **Normals**.
- 7. Put an Object or Bone to the **Object To Follow** slot, This will be followed by the **Smooth Object Normal** feature to maintain the shade position.
- 6. Disable **Show Normal**, to hide the displayed **Normals**.

^{*}Note: Not all Unity Shader properties and settings will be copied.

^{*}Note: For option tooltip or description, just hover your mouse to the options.



(ShadowT SDF Mode – Helper)

[How to use]

- 1. Select an Object/Model.
- 2. Click **Add Component** and go to **RealToon -> Tools** and select **ShadowT SDF Mode Helper**.
- 3. Go to the Inspector then ShadowT SDF Mode Helper.
- 4. Assign a material that uses RealToon Shader to the Material slot, this will automatically enable **ShadowT** feature and **SDF mode** option.
- 6. Put an Object or Bone to the Object To Follow slot, This will be followed by the ShadowT SDF Mode to maintain the shade position similar to **Smooth Object Normal** feature.
- 7. Click the material you put onto the **Material** slot then go to **Shadow** category then **ShadowT** then put the **SDF Texture** onto the **ShadowT** texture slot.
- 8. Adjust the **Light Threshold** to increase the light area of the shade, this is mostly useful when using Point, Spot and Area lights.

(Perspective Adjustment - Controller)

[How to use]

- 1. Click your **Object/GameObject**
- 2. Go Inspector Panel/Windows then click Add Component
- 3. Click RealToon -> Tool -> Perspective Adjustment Controller.

*Note: Once the component added into your selected object, it will enable the "Perspective Adjustment" feature in your object materials that uses "RealToon Shader".

For option tooltip or description, just hover your mouse to the options.

^{*}Note: For option tooltip or description, just hover your mouse to the options.



(Smear Effect – Helper)

[How to use]

- 1. Click your **Object/GameObject**
- 2. Go Inspector Panel/Windows then click Add Component
- 3. Click RealToon -> Tool -> Smear Effect Helper.

*Note: Once the component added into your selected object, it will enable the "Smear Effect" feature in your object materials that uses "RealToon Shader".

For option tooltip or description, just hover your mouse to the options.



[RealToon Effects/Post-Processing]

*Sobel Outline Effect

- Full screen sobel type outline and can only be use on **Built-In RP/3D**.

S	e	t	i	n	g	S

Outline Width (Default: 0)

- Outline width or line thickness.

Outline Color (Default: White)

- Outline Color.

[Note]

*Change this to white if you want the screen color to color the outline.

*Increase the **Color Power** to make it dark.

Color Power (Default: 2)

- How strong the outline color is.

[Note]

*Negative values will make it light, while positive values will make it strong/dark color.

*DeNorSob Outline (Post-Processing)

- Depth, Normal and Sobel Based Outline into one Post-Processing.
- Can only be use on URP and HDRP.

Settings

Outline Width (Default: 0)

- Outline width or line thickness.

Depth Threshold (Default: 900)

- This will adjust the Depth near and far.



[Note]

- *Positive values will move the **Depth** far but will reduce inner outlines if too far.
- *Negative values will move the **Depth** closer but will create some unwanted outline looks if too close.
- *Be sure to balance it.
- *Increase this more than **900** to have a clean silhouette style outline.

Normal Threshold (Default: 1.3)

- This will adjust the Normals.

[Note]

- *Positive values will show more outer and inner outline.
- *Negative values will reduce more outer and inner outline.

Normal Min (Default: 1) Normal Max (Default: 1)

- This will adjust the Minimum and Maximum of the Normal.

[Note]

- *If **Min** and **Max** are in the same value, it will make the outline look hard or hard edge.
- *Adjusting these will help you to get more outlines.

Sobel Outline (Default: Unchecked)

- Turn on Sobel Outline.

[Note]

- *If this turned on, **Depth** and **Normal** based outline will be disabled.
- *If you want to use both **Depth Normal Base Outline** and **Sobel Outline**, Turn on Mix Depth Normal And Sobel Outline option.

Sobel Threshold (Default: 0)

- The amount of outline to be shown.

White Threshold (Default: 0)

- The amount of outline that has been detected in the white or highlight area of the screen.

Black Threshold (Default: 0)

- The amount of outline that has been detected in the black or dark area of the screen.



Outline Color (Default: Black)
- Outline Color.
- Outline Color.
Mix Full Screen Color (Default: Unchecked)
- This will mix the Screen Color into the Outline Color .
Show Outline Only (Default: Unchecked)
- Show outline only.
Mix Depth Normal And Sobel Outline (Default: Unchecked)
- This will mix Depth – Normal Based Outline and Sobel Outline .

[Note About DeNorSob Outline]

- The outline width will be affected by the screen resolution, the higher the resolution the thinner the outline width, the lower the resolution the thicker the outline width.
- If some of your objects are Transparent, the outlines from the other object will be visible on the object, see through effect.



[How To Use RealToon Post-Processing]

*Sobel Outline (Built-In RP/3D)

Built-In RP/3D

- 1. Select a camera on the scene.
- 2. Click **Add Component** and go to **RealToon** -> **Effect**.
- 3. Select Sobel Outline.

*DeNorSob Outline (URP and HDRP)

URP/Universal Render Pipeline

1. Open the folder Settings and select the default ForwardRenderer/Renderer or your own created renderer on the project window/panel.

[For URP 16 and below]

- a. Click Add Render Feature and select Depth-Normals Feature.
- b. Click Add Render Feature again and select De Nor Sob Outline.

[For URP 17 and later]

- a. Click Add Render Feature and select DeNorSob Outline Renderer Feature.
- b. Create a volume by right click the Hierarchy then go to Volume then click Global Volume.
- c. Select the Global Volume you've created in the Hierarchy then click New in the Inspector panel.
- d. Click Add Override then go to Post-Processing then RealToon then click DeNorSob Outline.

[Note]

- Before you start using it, you'll need to turn on **Depth Texture** on the camera or on URP settings. This is needed for the **Depth Based Outline**.
- Depth-Normals Feature is needed for the Normal Based Outline. (For URP 13 and below)
- * If you are planning to use the effect in making games or make a build
- 1. Go to Edit -> Project Settings then Graphics.
- 2. After that add 1 to the Size under Always Included Shaders, now it adds another element.
- 3. Click the last element then search for **DeNorSob Outline** then click it.



HDRP/High Definition Render Pipeline

- 1. Go to GameObject -> Volume then click Global Volume.
- 2. Then next click **Global Volume** in the **Hierarchy** window/panel or in the scene.
- 3. Click New, this will create a Global Volume Profile.
- 4. Click Add Override then go to Post-Processing -> RealToon then select DeNorSob Outline.
- * Then next we will add that effect in the Custom Post Process Order so that the effect will work.
- 5. To add Go to Edit -> Project Settings -> HDRP Default Settings then scroll down to Custom Post Process Order.

(For HDRP 7 and 8: Click the + sign under the After Post Process then click RealToon. Effects.DeNorSobOutline.) (For HDRP 10 to later: Click the + sign under the Before TAA then click RealToon. Effects.DeNorSobOutline.)

- * If you are planning to use the effect in making games or make a build
- 1. Go to Edit -> Project Settings then Graphics.
- 2. After that add 1 to the Size under Always Included Shaders, now it adds another element.
- 3. Click the last element then search for **DeNorSob Outline** then click it.



[RealToon Shader Options and Features]

Texture - Color	Shader Type	Render Pipeline
Double Sided (Default: Off) - Make the other side of a plane object or face visible.	All RealToon Shader	Built-In RP/3D LWRP
Culling (Default: Back)		
- Controls which sides of polygons should be culled (not drawn).		
[Note] * Back: Don't render polygons that are facing away from the viewer. * Front: Don't render polygons that are facing towards the viewer, Used for turning objects inside-out. * Off: Disables culling - all faces are drawn, This also called Double Sided."	Default Shader	URP and HDRP
Texture/Main Texture (Default: Empty)		
- The main texture of the object.	All RealToon Shader	All Render Pipeline
Texture Pattern Style (Default: Unchecked)		
- Turn Texture/Main Texture into pattern style.	All RealToon Shader	All Render Pipeline
Refraction Intensity (Default: 1)		
- How strong the Refraction is.	Refraction Shader	Built-In RP/3D
Texture Intensity (Default: 0)		
- How visible the Texture/Main Texture is.	Refraction Shader	Built-In RP/3D
Main Color (Default: White)		
- The main color of the object.	All RealToon Shader	All Render Pipeline
Main Color Power (URP Default: 0.8) (HDRP Default: 0.15)		
- How strong the Main Color color.		
[Note] *This option will also prevent overexposure when using white or bright colors. *Set this to 1 if you want the true brightness of the Main Color. *The default value for RealToon URP is 0.8 while the RealToon HDRP is 0.15 *Each time you change shader from RealToon URP to RealToon HDRP or opposite, it will automatically adjust to the right value.	Default Shader	URP and HDRP



Mix Vertex Color (Default: Unchecked)		
- Mix the object vertex color to the Main Color. [Note] *This can also be use as View Object Vertex Color for debug.	All RealToon Shader	All Render Pipeline
Main Color in Ambient Light Only (Default: Unchecked)		
- Put the Main Color into the Ambient light. [Note] *This will only works if there is Ambient/Environmental Light/GI. *Enable this if you're doing multi-shading.	All RealToon Shader	All Render Pipeline
Highlight Color (Default: White)		
- Put the Main Color into the Ambient light. [Note] *This will only works if there is Ambient/Environmental Light/GI. *Enable this if you're doing multi-shading.	All RealToon Shader	All Render Pipeline
Highlight Color (Default: 1)		
- Highlight color power or intensity.	All RealToon Shader	All Render Pipeline
Enable Texture Transparent (Default: Unchecked)		
- Enable texture transparent. [Note] *This is disabled if no texture assign on the Texture/Main Texture.	Default Shader	Built-In RP/3D LWRP

MatCap/Material Capture	Shader Type	Render Pipeline
Intensity (Default: 1)		
- How visible or strong the MatCap is.	All RealToon Shader	All Render Pipeline
MatCap (Default: Empty)		
- A MatCap texture to be use.	All RealToon Shader	All Render Pipeline
Specular Mode (Default: Unchecked)		
- Turn MatCap into specular style.	All RealToon Shader	All Render Pipeline
RealToon (MJQ Studio Works © 2016 - 2025)		



Specular Mode (Default: Unchecked)		
- Turn MatCap into specular style.	All RealToon Shader	All Render Pipeline
Specular Power (Default: 1)		
- How strong or intense the specular look is.	All RealToon Shader	All Render Pipeline
Mask MatCap (Default: Empty)		
- Mask the MatCap .		
[Note] *Use a Black and White or Grayscale texture/map. *White is the MatCap while the Black is the non MatCap part.	All RealToon Shader	All Render Pipeline

Cutout	Shader Type	Render Pipeline	
Cutout (Default: 0)			
- Cutout value or threshold	All RealToon Shader	All Render Pipeline	
Alpha Based Cutout (Default: Unchecked)			
- Use the Main Texture alpha for cutting out.	All RealToon Shader	All Render Pipeline	
[Note] *If this is unchecked it will follow the bright and dark colors of the Main Texture for cutting out.			
Soft Cutout (Default: Unchecked)			
- For a soft edge cutout. [Note] *This feature uses the dithering style cutout. * Currently to reduce the artifacts use a high resolution texture or use a high resolution screen size. You can also use some kind of full screen Anti-Aliasing.	Default Shader	URP and HDRP	
Use Secondary Cutout Only (Default: Unchecked)			
- Use only the secondary cutout for cutting out.	All RealToon Shader	All Render Pipeline	
Secondary Cutout (Default: 0)			
- A texture to be use as secondary cutout.	All RealToon Shader	All Render Pipeline	
[Note] *You can use Colored or Black and White or Grayscale color texture.			
Enable Glow (Default: Unchecked)			
- This will add a glow edge.	Default Shader	URP and HDRP	



Glow Color (Default: White)		
- The color of the glow.	Default Shader	URP and HDRP
Glow Width (Default: 1)		
- How thick or thin the glow edge.	Default Shader	URP and HDRP

Transparency	Shader Type	Render Pipeline
Simple Transparency (Default:Unchecked)		
- Common simple transparency.	Default Shader	URP and HDRP
[Note] *Only Opacity, Blend Modes and Affects Shadow (URP) are available. *Transparent Threshold and Mask Transparency are not available.		
Opacity (Default: 1)		
- How opaque the object is.	All RealToon Shader	All Render Pipeline
Transparent Threshold (Default: 0)		
- The transparent alpha threshold of the object Texture/Main Texture .	All RealToon Shader	All Render Pipeline
Blend – Source (Default: ScrAlpha)		
- Transparent blend source.	Default Shader	URP and HDRP
Blend – Destination (Default: OneMinusScrAlpha)		
- Transparent blend destination.	Default Shader	URP and HDRP
Affect Shadow (Default: Checked)		
- Transparent opacity affect shadow.	Default Shader	URP
Mask Transparency (Default: Empty)		
- Mask transparent.		
[Note] *Use a Black and White or Grayscale texture/map. *White is the non transparent part while the Black is the Transparent part or just normal part.	All RealToon Shader	All Render Pipeline



Normal Map	Shader Type	Render Pipeline
Normal Map (Default: Empty)		
- The Normal Map to be use.	All RealToon Shader	All Render Pipeline
Normal Map Intensity (Default: 1)		
- How strong the Normal Map is.	All RealToon Shader	All Render Pipeline

Color Adjustment	Shader Type	Render Pipeline
Saturation (Default: 1)	All RealToon Shader	
- Adjust the color saturation of the object.		All Render Pipeline
[Note] *- The outline width will be affected by the screen resolution, the higher the		
resolution the thinner the outline width, the lower the resolution the thicker the outline width.		

Outline	Shader Type	Render Pipeline
Width (Default: 0.5) - Outline width or thickness. [Note] *On Screen Space Outline mode, the Outline Width will be affected by the screen resolution, the higher the resolution the thinner the Outline Width, the lower the resolution the thicker the Outline Width.	All RealToon Shader	All Render Pipeline
Width Control (Default: Empty) - A black and white or grayscale color texture to be use control the outline width. [Note] *This will not work if the Width option is 0. *Black is 0 while White is 1.	All RealToon Shader	All Render Pipeline
- Use a normal map to enhance the outline normal direction.	Default Shader	HDRP
Normal Map (Default: Unchecked)		
- A normal map for enhancing the outline normal direction.	Default Shader	HDRP
Normal Map Intensity (Default: 1)		
- How strong the Normal Map is.	Default Shader	HDRP



Outline extrusion type/method to be use. [Note] 'Origin - The extrusion will be based on the object's center of origin. 'Normal - The extrusion will be based on the object's normal direction. Outline Offset (Default: X:0 Y:0 Z:0) - XYZ offset value of the outline. Double Sided Outline (Default: Off) - This will show the front side of the outline or change the culling of the outline to off. [Note] **Viscoli for plane object. **Outline Z Position In Camera option is needed to be adjust to show the object. **Outline Z Position In Camera option is needed to be adjust to show the object. **Outline Z Position In Camera option is needed to be adjust to show the object. **Outline Intensity (Default: Unchecked) - This will mix Texture To Outline (Default: Unchecked) - This will mix Texture To Outline (Default: Unchecked) - How noisy Is the outline is. Dynamic Noisy Outline (Default: Unchecked) - Moving noisy outline. [Note] **Noving noisy outline. [Note] **Intensity in ord work if the Noisy Outline Intensity is 0. Light Affect Outline Color (Default: Unchecked) - Light falloff, color and intensity affect outline color. Outline Width Affected By View Distance (Default: Unchecked) - Camera view distance affects outline width or thickness. [Note] **For distance will increase outline width. **Near distance will decrease outline width. **Real Toon Shader All Real Toon Shader All Render Pipeline All Render Pipeline All Real Toon Shader All Render Pipeline All Render Pipeline All Real Toon Shader All Render Pipeline All Real Toon Shader All Render Pipeline All Real Toon Shader All Render Pipeline All Render Pipeline All Real Toon Shader All Render Pipeline All Render Pipeline	Outling Extrude Mathed (Default: Normal)		T
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- The maximum width or thickness value when camera distance is far from the All RealToon Shader All Render Pipeline			
	Far Distance Max Width (Default: Unchecked)		
		All RealToon Shader	All Render Pipeline



Transparent Opacity Affect Outline (Default: Checked)		
- Transparent affect outline opacity. [Note] *This only works if Transparent Mode is enabled.	Default Shader	HDRP
Vertex Color Blue Affect Outline Width (Default: Unchecked)		
- Object vertex color blue channel affect Outline Width .	All RealToon Shader	All Render Pipeline
[Note] *This will not work if the Width option is 0.	7 iii rediroon ondder	7 iii Neilidei 1 ipellile
Use Screen Space Outline / Use Traditional Outline		
- Use Screen Space Outline or use Traditional Outline .		
*This is NOT PER-MATERIAL. *THIS WILL MODIFY THE SHADER FILE and change the type of outline to be use. *On RealToon URP, only Depth Based Outline is available and Depth Texture is needed to be On. *If Screen Space Outline is used and Transparent Mode is enabled, the outline from the other object will be visible even if the transparent Opacity is 1 and ZWrite is Off or On.	Default Shader	URP and HDRP

Screen Space Outline	Shader Type	Render Pipeline
Mix Outline To The Shader Output (Default: Unchecked)		
- This will mix the outline looks and color to the shader output.	Default Shader	HDRP
Depth Threshold (Default: 900)		
- This will adjust the Depth near and far. [Note]	Default Shader	URP and HDRP
*Positive values will move the Depth far but will reduce inner outlines if too far. *Negative values will move the Depth closer but will create some unwanted outline looks if too close. *Increase this more than 900 to have a clean silhouette style outline.		
Normal Threshold (Default: 1.3)		
- This will adjust the Normals. [Note] *Positive values will show more outer and inner outline. *Negative values will reduce more outer and inner outline.	Default Shader	HDRP



Normal Min (Default: 1) Normal Max (Default: 1)		
- This will adjust the Minimum and Maximum of the Normal .		
[Note] *If Min and Max are in the same value, it will make the outline look hard or hard edge. *Adjusting these will help you to get more outlines.	Default Shader	HDRP

Self Lit/Self Illumination	Shader Type	Render Pipeline
Intensity (Default: 1)		
- How strong or intense the Self Lit is.	All RealToon Shader	All Render Pipeline
Color (Default: White)		
- Self Lit color.	All RealToon Shader	All Render Pipeline
Power (Default: 2) (HDRP Default: 50)		
- How strong the Self Lit color.	All RealToon Shader	All Render Pipeline
Texture and Main Color Intensity (Default: 1) (HDRP Default: 0)		
- How strong the Texture/Main Texture and Main Color is for Self Lit .	All RealToon Shader	All Render Pipeline
[Note] *Adjust this if the Texture/Main Texture and Main Color is too strong for self lit.	All Real Foot Shadel	All Kellder Pipeline
High Contrast (Default: Checked)		
- Will turn the Self Lit into high contrast look.		
[Note] *This will mix Texture/Main Texture and Main Color twice for high contrast look. *Uncheck this if you just want the color.	All RealToon Shader	All Render Pipeline
Mask Self Lit (Default: Empty)		
- Mask Self Lit .		
[Note] *Use a Black and White or Grayscale texture/map. *White is the Self Lit while the Black is the non Self Lit or just normal part.	All RealToon Shader	All Render Pipeline



Gloss	Shader Type	Render Pipeline
Gloss Intensity (Default: 1)		
- How visible or strong the gloss is.	All RealToon Shader	All Render Pipeline
Glossiness (Default: 0.8)		
- How gloss the object is.	All RealToon Shader	All Render Pipeline
Softness (Default: 0)		
- How soft the gloss is.	All RealToon Shader	All Render Pipeline
Color (Default: White)		
- Gloss color.	All RealToon Shader	All Render Pipeline
Color Power (Default: 10)		
- How strong the gloss color is.	All RealToon Shader	All Render Pipeline
Mask Gloss (Default: Empty)		
- Mask Gloss .		
[Note]	All RealToon Shader	All Render Pipeline
*Use a Black and White or Grayscale texture/map. * White is the Gloss part while the Black is the non Gloss part or just normal.		

Gloss Texture	Shader Type	Render Pipeline
Gloss Texture (Default: Empty)		
- A texture or image to be use as Gloss .		
[Note]	All RealToon Shader	All Render Pipeline
*Use any Black and White or Grayscale color 4x4 or equal size texture/image. *If you're using a wide size image, Adjust the X Tiling of the Gloss Texture .		
Softness (Default: 0)		
- How soft the Gloss Texture is.	All RealToon Shader	All Render Pipeline
Pattern Style (Default: Unchecked)		
- Turn Gloss Texture into pattern style.	All RealToon Shader	All Render Pipeline
Rotate (Default: 0)		
- Rotate Gloss Texture . [Note] *Adjust also the Gloss Texture Offset option to adjust the position if needed.	All RealToon Shader	All Render Pipeline



Follow Object Rotation (Default: Unchecked)		
- Gloss Texture follows object rotation.	All RealToon Shader	All Render Pipeline
Follow Light (Default: Unchecked)		
- Gloss Texture follows light.	All RealToon Shader	All Render Pipeline
[Note] *This will adjust the follow light sensitivity.		

Shadow	Shader Type	Render Pipeline
Overall Shadow Color (Default: Black)		
- The overall shadow color of the object. [Note] *This will affect Realtime shadow, Self Shadow/Shade and ShadowT. *Change this to White if you want to use the Color Shadow Texture feature to color the shadow.	All RealToon Shader	All Render Pipeline
Overall Shadow Color Power (Default: 1)		
- How strong the Overall Shadow Color .	All RealToon Shader	All Render Pipeline
Self Shadow & ShadowT At View Direction (Default: Unchecked)		
- Self Shadow and ShadowT follow the camera's view or view direction.	All RealToon Shader	All Render Pipeline
Reduce Shadow (Default: 0)		
- Reduce self cast shadow of the object.	Default Shader	URP and HDRP
Reduce Shadow (Pointlight) (Default: 0)		
- Reduce self cast shadow of the object. [Note] *This option will take effect when there's a pointlight present on the scene.	All RealToon Shader	Built-In RP/3D
Point Light Shadow Visibility Distance (Default: 0)		
- The amount of visible Point Light shadow on the object when the Point Light is move away from the object.	All RealToon Shader	Built-In RP/3D
Reduce Shadow (Spot & Directional Light) (Default: 10)		
- Reduce self cast shadow of the object. [Note] *This option will take effect when there's a spotlight or directional light or both present on the scene.	All RealToon Shader	Built-In RP/3D



Shadow Hardness (Default: 0)		
- Realtime shadow hardness look.	All RealToon Shader	All Render Pipeline
Self Shadow & Realtime Shadow Intensity (Default: 1)		
- Self Shadow and Realtime Shadow intensity or visibility. [Note] *If Self Shadow feature is disabled, it will only affect RealTime Shadow.	All RealToon Shader	All Render Pipeline
Enable Screen Space Ambient Occlusion (Default: Unchecked)		
- This will enable the object to have SSAO/Screen Space Ambient Occlusion.	Default Shader	URP and HDRP
Ambient Occlusion Color (Default: Black)		
- The color of the SSAO/Screen Space Ambient Occlusion.	Default Shader	URP and HDRP
Enable Screen Space Shadow (Default: Checked)		
- Enable Screen Space type Outline. [Note] *If this option is enabled, it will also allow you to use DXR/Ray Tracing Shadow. *If this option is disabled, it will use the non Screen Space Shadow and shadow map.	Default Shader	HDRP

Self Shadow/Shade	Shader Type	Render Pipeline
Self Shadow Intensity (Default: 1) - How visible the Self Shadow/Shade is.	Fade Transparency Shader	Built-In RP/3D LWRP
Threshold (Default: 0.85)		
- The amount of Self Shadow/Shade on the object.	All RealToon Shader	All Render Pipeline
Vertex Color Green Affect Self Shadow Threshold (Default: Unchecked)		
- Object vertex color blue channel affect Self Shadow Threshold . [Note] *This will not work if the Width option is 0 .	All RealToon Shader	All Render Pipeline



Hardness (Default: 1)		
- Hardness looks of the Self Shadow/Shade . [Note] *Value 1 hard look. *Value 0 Soft look.	All RealToon Shader	All Render Pipeline
Self Shadow & Real Time Shadow Color (Default: White)		
- Self Shadow/Shade and RealTime Shadow color power or intensity. [Note] *Visible if the Overall Shadow Color option is color White or any light color.	All RealToon Shader	All Render Pipeline
Self Shadow & Real Time Shadow Color Power (Default: 1)		
- Self Shadow and RealTime Shadow color. [Note] *Visible if the Overall Shadow Color option is color White or any light color.	All RealToon Shader	All Render Pipeline
Light Ignore Y Normal Direction (Default: Unchecked)		
- Light will ignore object's Y normal direction if the light angle or position is in X or Y	Default Shader	URP and HDRP
Self Shadow Affected By Light Shadow Strength (Default: Unchecked)		
- Self Shadow/Shade visibility will be affected by the light shadow Strength.	All RealToon Shader	All Render Pipeline

Smooth Object Normal/Ignore Object Normal	Shader Type	Render Pipeline
Smooth Object Normal (Default: 0)		
- The amount of smoothed object normal/ignored object normal.	All RealToon Shader	All Render Pipeline
Vertex Color Red Control Smooth Object Normal (Default: Unchecked)		
- Object vertex color red channel affect the amount of smoothed object normal/ignored object normal.	All RealToon Shader	All Render Pipeline
[Note] *Visible if the Overall Shadow Color option is color White.		



Show Normal (Default: Unchecked)		
- Show the object normal.	All RealToon Shader	All Render Pipeline

Shadow Color Texture	Shader Type	Render Pipeline
Shadow Color Texture (Default: Empty)		
- Texture to be use to color the shadow. [Note] *Visible if the Overall Shadow Color option is color White or any light color.	All RealToon Shader	All Render Pipeline
Power (Default: 0)		
- How strong the Shadow Color Texture is.	All RealToon Shader	All Render Pipeline

ShadowT	Shader Type	Render Pipeline
ShadowT Intensity (Default: 1) - How visible the ShadowT is.	All RealToon Shader "Except the Lite"	All Render Pipeline
Shadow T (Default: Empty) - A Black and White or Grayscale texture to be use as shadow. [Note] *You can use a Flat, Gradient or SDF texture as shadow. *Black will always be visible and not affected by the light while Gray and White	All RealToon Shader	All Render Pipeline
will always be affect by the light Light Threshold (Default: 50) - The amount of light to affect ShadowT.	All RealToon Shader	All Render Pipeline
- The amount of ShadowT.	All RealToon Shader	All Render Pipeline
- Hardness looks of the ShadowT.	All RealToon Shader	All Render Pipeline
Color (Default: White) - ShadowT Color. [Note] *Visible if the Overall Shadow Color option is color White or any light color.	All RealToon Shader	All Render Pipeline



Color Povice (Defende 4)		
Color Power (Default: 1)	-	
- How strong the color is.	All RealToon Shader	All Render Pipeline
Ignore Light (Default: Unchecked)		
- Don't follow the light or Ignore light direction.	All RealToon Shader	All Render Pipeline
Show In Shadow (Default: Unchecked)		
- Show ShadowT in the shadow.	All RealToon Shader "Except the Lite"	All Render Pipeline
[Note]	Except the lite	
*Visible if the Overall Shadow Color option is color White or any light color.		
Show In Ambient Light (Default: Unchecked)		
Show in Ambient Light (Dejault: Ontheckea)	-	
- Show ShadowT in Ambient Light.	All RealToon Shader "Except the Lite"	All Render Pipeline
[Note]	Except the lite	
*Visible if the Ambient Light/Environmental Light or GI is present.		
Show In Ambient Light & Shadow Intensity (Default: 1)		
- Show In Ambient Light and Show In Shadow visibility.	All RealToon Shader	All Render Pipeline
[Note] *Visible if the Ambient Light/Environmental Light or GI is present.	"Except the Lite"	, , ,
Show In Ambient Light & Shadow Threshold (Default: 1)		
- Show In Ambient Light and Show In Shadow threshold.	All RealToon Shader "Except the Lite"	All Render Pipeline
Light Falloff Affect ShadowT (Default: Unchecked)		
- Light falloff will affect ShadowT . [Note] *Visible if the Ambient Light/Environmental Light or GI is present.	All RealToon Shader	All Render Pipeline



PTexture	Shader Type	Render Pipeline
PTexture (Default: Empty)		
- A texture to be use as pattern.		
[Note] *This will only affect Self Shadow/Shade, ShadowT features and RealTime Shadow.	All RealToon Shader	All Render Pipeline
Power (Default: 1)		
- How strong the PTexture looks.	All RealToon Shader	All Render Pipeline

Lighting	Shader Type	Render Pipeline
Receive Environmental Lighting and GI (Default: Checked)		
- The object will receive environmental lighting and GI.	All RealToon Shader	All Render Pipeline
Environmental Lighting Intensity (Default: 1)		
- How strong or intense the environmental lighting.	All RealToon Shader	All Render Pipeline
[Note] *This is connected to Receive Environmental Lighting and GI option.	"Except the Lite"	γ
Use Old Ambient Light (Default: Unchecked)		
- Use the old unity's Ambient Light.	Lite Shaders	Built-In RP/3D
Enable Screen Space Global Illumination (Default: Checked)		
- Enable Screen Space type Global Illumination.		
[Note] *If this option is enabled, it will also allow you to use DXR/Ray Tracing Global Illumination. *If this option is disabled, it will use the non Screen Space Global Illumination.	Default Shader	HDRP
GI Flat Shade (Default: Unchecked)		
- Turn GI Shade into flat look.	All RealToon Shader "Except the Lite"	All Render Pipeline
GI Shade Threshold (Default: 0)		
- The amount of GI Shade on the object.	All RealToon Shader "Except the Lite"	All Render Pipeline
Raytraced GI Shade Falloff (Default: 0)		
- This will adjust the Raytraced Global Illumination shade falloff.	Default Shader	HDRP
[Note] *This will only take effect if the object is in a real time light (Directional, Spot, Point and Area) and the Shadow Color is not color black.		



- Light intensity, color and light falloff affect shadow. [Note] *This will only affect Self Shadow/Shade, ShadowT features and RealTime Shadow. Light Intensity (Default: -1) - How strong or intense the light on the shadow. [Note] *This will only affect Self Shadow, ShadowT features and RealTime Shadow. *This is connected to Light Affect Shadow option. *The default value on RealToon URP and RealToon HDRP is 1. Use Traditional Light Blend (Default: Unchecked) - This will use the traditional style light blending. [Note] * If enabled light blending will be in add mode. * If enabled the light blending will based on high or maximum light intensity and the blending will be similar to Anima or Cortaon.
"Except the Lite" All RealToon Shader "Except the Lite" Use Traditional Light Blend (Default: Unchecked) Use Traditional Light Blending will be in add mode. "If enabled light blending will be in add mode. "If not enabled the light blending will based on high or maximum light intensity Use Traditional Style light blending will based on high or maximum light intensity Use Traditional Style light blending will based on high or maximum light intensity Use Traditional Style Light Blending will based on high or maximum light intensity Use Traditional Style Light Blending will based on high or maximum light intensity Use Traditional Style Light Blending will based on high or maximum light intensity Use Traditional Style Light Blending will based on high or maximum light intensity Use Traditional Style Light Blending will based on high or maximum light intensity Use Traditional Style Light Blending will based on high or maximum light intensity Use Traditional Style Light Blending will based on high or maximum light intensity Use Traditional Style Light Blending will be light Blending will based on high or maximum light intensity Use Traditional Style Light Blending will be lig
- How strong or intense the light on the shadow. [Note] *This will only affect Self Shadow, ShadowT features and RealTime Shadow. *This is connected to Light Affect Shadow option. *The default value on RealToon URP and RealToon HDRP is 1. Use Traditional Light Blend (Default: Unchecked) - This will use the traditional style light blending. [Note] * If enabled light blending will be in add mode. * If not enabled the light blending will based on high or maximum light intensity All RealToon Shader "Except the Lite" Default Shader URP and HDI
[Note] *This will only affect Self Shadow, ShadowT features and RealTime Shadow. *This is connected to Light Affect Shadow option. *The default value on RealToon URP and RealToon HDRP is 1. Use Traditional Light Blend (Default: Unchecked) - This will use the traditional style light blending. [Note] * If enabled light blending will be in add mode. * If not enabled the light blending will based on high or maximum light intensity All RealToon Shader "Except the Lite" UEX "Except the Lite" * Default Shader URP and HDI * If enabled the light blending will based on high or maximum light intensity
*This will only affect Self Shadow, ShadowT features and RealTime Shadow. *This is connected to Light Affect Shadow option. *The default value on RealToon URP and RealToon HDRP is 1. Use Traditional Light Blend (Default: Unchecked) - This will use the traditional style light blending. [Note] * If enabled light blending will be in add mode. * If not enabled the light blending will based on high or maximum light intensity "Except the Lite"
- This will use the traditional style light blending. [Note] * If enabled light blending will be in add mode. * If not enabled the light blending will based on high or maximum light intensity Default Shader URP and HDI
[Note] * If enabled light blending will be in add mode. * If not enabled the light blending will based on high or maximum light intensity Default Shader URP and HDI
* If enabled light blending will be in add mode. * If not enabled the light blending will based on high or maximum light intensity
and the blending will be similar to Anime or Cartoon.
Enable Punctual Lights (Default: Checked)
- This will enabled the object to receive Punctual Lights (Point Spot and Area Lights). Default Shader HDRP
Enable Area Light (Default: Unchecked)
- This will enabled the object to receive Area Light.
[Note] * If the size of a Rect Type Area Light is too un-even like 'X:24 Y:1' the light fall off will cause some noise. This only applies when Area Light Smooth Look option is disabled.
Directional Light Intensity (Default: 0)
- How strong or intense the Directional Light on the object. All RealToon Shader All Render Pipe
Point and Spot Light Intensity (Default: 0.45)
- How strong or intense the Point and Spot light on the object. All RealToon Shader
[Note] *On RealToon URP and RealToon HDRP the default value is 0.
Area Light Intensity (Default: 0)
- How strong or intense the Area Light on the object. Default Shader HDRP



Tube Light Falloff (Default: 20)		
- This will adjust the Tube Type Area Light falloff on the object.	Default Shader	HDRP
Area Light Smooth Look (Default: Unchecked)		
- This will make the Area Light shades and falloff on the object looks smooth. [Note] *If enabled, Tube Light Falloff option will be disabled.	Default Shader	HDRP
Light Falloff Softness (Default: 1)		
- How soft the Point and Spotlight light falloff is on the object.	All RealToon Shader	All Render Pipeline
[Note] *Set this to 0 if you want an anime style light falloff, it is usually hard look.		

Custom Light Direction	Shader Type	Render Pipeline
Intensity (Default: 0)		
- The amount of custom light direction sensitivity.	All RealToon Shader	All Render Pipeline
Custom Light Direction (Default: X:0 Y:0 Z:10)		
- Custom Light Direction vector value. [Note] *This will only affect Self Shadow/Shade and ShadowT features.	All RealToon Shader	All Render Pipeline
Follow Object Rotation (Default: Unchecked)		
- Custom Light Direction will follow object rotation. [Note]	All RealToon Shader	All Render Pipeline
*This will only affect Self Shadow/Shade and ShadowT features.		

Reflection	Shader Type	Render Pipeline
Intensity (Default: 0)		
- How visible the reflection is	All RealToon Shader	All Render Pipeline
Roughness (Default: 0)		
- How rough the reflection looks.	All RealToon Shader	All Render Pipeline



Metallic (Default: 0)		
- How metallic the object is. [Note] *Change the Main Color to something dark to make it more metallic and dark.	All RealToon Shader	All Render Pipeline
Enable Screen Space Reflection (Default: Checked)		
- Enable Screen Space type Reflection. [Note] *If this option is enabled, it will also allow you to use DXR/Ray Tracing Reflection. *If this option is disabled, it will use the non Screen Space Reflection and use the normal style Reflection.	Default Shader	HDRP
Mask Reflection (Default: Empty)		
- Mask Reflection . [Note] *Use a Black and White or Grayscale texture/map. *White is the Reflection part while the Black is the non Reflection part.	All RealToon Shader	All Render Pipeline

FReflection	Shader Type	Render Pipeline
FReflection (Default: Empty)		
- A texture or image to be use as reflection.		
[Note] *use any 4x4 or equal size texture/image.	All RealToon Shader	All Render Pipeline
*If you're using wide size image, Adjust the X Tiling of the FRelfection . *FReflection stands for Fake Reflection .		

Rim Light/Fresnel	Shader Type	Render Pipeline
Rim Light Intensity (Default: 1)		
- How visible the Rim Light is.	Default Shader	URP and HDRP
Unfill (Default: 1.5)		
- Reduce Rim Light on the object.	All RealToon Shader	All Render Pipeline
Threshold (Default: 900)		
- The amount of Rim Light effect on the object.	Default Shader	URP and HDRP
Softness (Default: 1)		
- How soft the Rim Light is.	All RealToon Shader	All Render Pipeline



Light Affect Rim Light Color (Default: Unchecked)		
- Light intensity, color and falloff affect rim light color.	All RealToon Shader	All Render Pipeline
Color (Default: White)		
- Rim light color.	All RealToon Shader	All Render Pipeline
Color Power (Default: 10)		
- How strong the rim light color is.	All RealToon Shader	All Render Pipeline
Screen Space Rim Light (Default: Unchecked)		
- Screen Space type Rim Light	Default Shader	URP and HDRP
Rim Light In Light (Default: Checked)		
- Rim light in the light area of the object.	All RealToon Shader	All Render Pipeline

Depth	Shader Type	Render Pipeline
Depth (Default: 0.2)		
- The amount of Depth effect.	Refraction Shader	Built-In RP/3D
Edge Hardness (Default: 0.1)		
- How hard the depth edge looks.	Refraction Shader	Built-In RP/3D
Color (Default: RGB: 128)		
- Depth edge color.	Refraction Shader	Built-In RP/3D
Color power (Default: 1.8)		
- How strong the color is.	Refraction Shader	Built-In RP/3D



Tessellation	Shader Type	Render Pipeline
Smoothness (Default: 0.5)		
- Smooth tessellated faces.	All RealToon Shader With Tessellation	Built-In RP/3D
Tessellation Transition (Default: 0.8)		
- Transition distance between Near and Far .	All RealToon Shader	
[Note]	With Tessellation	Built-In RP/3D
*0 means mostly near tessellation value while 1 means mostly far tessellation value.		
Tessellation Near (Default: 1)		
- The amount of Tessellation when Near .	All RealToon Shader With Tessellation	Built-In RP/3D
Tessellation Far (Default: 1)		
- The amount of Tessellation when Far .	All RealToon Shader With Tessellation	Built-In RP/3D

See Through	Shader Type	Render Pipeline
ID (Default: 0)		Built-In RP/3D
- ID or Reference value.	All RealToon Shader	LWRP URP
Set 1 (Default: None) Set 2 (Default: None)		
[Note] *A the see through object. *B the object to be seen through A. *If Set 1 is set to A, Set 2 is also set to A. (See through object) *If Set 1 is set to B, Set 2 is also set to B. (Object to be seen through "A") *If the ID of the see through object A is set to 1, the ID of the object to be seen through A is also set to 1.	All RealToon Shader	Built-In RP/3D LWRP URP
(Important) [See through object "A"] Render Queue set to Geometry (2000). ["B" object to be seen through "A"] Render Queue set to Geometry (2000) and minus 1. [VRChat users that don't use this, Set both A and B to "Blank"] (See/open scene "See Through Example" for more info)		

Near Fade Dithering	Shader Type	Render Pipeline
Min Distance (Default: 0)		
- The minimum start fade distance.	Default Shader	URP and HDRP
Max Distance (Default: 2)		
- The maximum end fade distance.	Default Shader	URP and HDRP



Triplanar	Shader Type	Render Pipeline
Tile (Default: 1)		
- Tiling scale of the texture.	Default Shader	URP and HDRP
Blend (Default: 4)		
- Blending of the triplanar texture.	Default Shader	URP and HDRP

Perspective Adjustment	Shader Type	Render Pipeline
Tile (Default: 1)		
- Tiling scale of the texture.	Default Shader	URP and HDRP
Blend (Default: 4)		
- Blending of the triplanar texture.	Default Shader	URP and HDRP
Perspective (Default: 1)		
- This will change the perspective of an object to 2D or 3D or FOV stretch look.	Default Shader	URP and HDRP
[Note] *For 2d Anime/Toon look, set it to 0.3 or 0.		
Clip (Default: 0)		
- This will change the clipping on the object.	Default Shader	URP and HDRP
[Note] * Change this if the object is overlapping front or back.		
Close-Up Size (Default: 0)		
- This will adjust the size of the object when the camera is closer.	Default Shader	URP and HDRP
Close-Up Size Smooth Transition (Default: 1)		
- How smooth the transition of the sizing.		
[Note]	Default Shader	URP and HDRP
*Higher value will make the transition smooth, while lower value will make the transition strong and fast.		
Close-Up Size Smooth Transition (Default: 0)		
- Distance transition from the camera to the object.	Default Shader	URP and HDRP



Disable/Enable Features	Shader Type	Render Pipeline
MatCap		
- It is a complete material including lighting, specular and reflection that is baked into texture/image.	All RealToon Shader	All Render Pipeline
Normal Map		
- Normals that are baked into texture/image.	All RealToon Shader	All Render Pipeline
Outline	All RealToon Shader	All Render Pipeline
Cutout		
- Cutting out parts of the object based on the assign texture.	All RealToon Shader	All Render Pipeline
Color Adjustment		
- Adjusting the colors of the shader output.	All RealToon Shader	All Render Pipeline
Self Lit		
- Self lit, Self illumination or Emission.	All RealToon Shader	All Render Pipeline
Gloss		
- Glossy style or looks.	All RealToon Shader	All Render Pipeline
Gloss Texture		
- Glossy style or looks in texture/image form.	All RealToon Shader	All Render Pipeline
Self Shadow		
- Objects own shadow or shade.	All RealToon Shader	All Render Pipeline
Smooth Object Normal		
- Smooth the normals of the object Useful on Anime/Cartoon model face. [Note] *Add SmoothObjectNormal – Helper Component to your object for this to work. To Add: Click your object then click Add Component then RealToon>Tool>SmoothObjectNormal – Helper	All RealToon Shader	All Render Pipeline
Shadow Color Texture		
- Shadow colors in texture/image form It is use for coloring shadow using texture/image.	All RealToon Shader	All Render Pipeline
ShadowT		
- Shadows in texture/image form Add more detailed shadows that can't produce by the Real time shadow.	All RealToon Shader	All Render Pipeline
ShadowT - Shadows in texture/image form.	All RealToon Shader	All Render Pipel



- Patterned texture for comics, pop or manga style shadows. Custom Light Direction - Customize light direction for shades Useful on Anime/Cartoon model face. Reflection - Reflection - Reflection - Reflection in texture or image form A Fake Reflection. Rim Light - Light at the edge of the object. All RealToon Shader All RealToon Shader All Render Pipelin All RealToon Shader All RealToon Shader All Render Pipelin All RealToon Shader All RealToon Shader All Render Pipelin Refraction Shader All Render Pipelin Depth Refraction Shader Built-In RP/3D Near Fade Dithering	PTexture		
- Customize light direction for shades Useful on Anime/Cartoon model face. Reflection - Reflection - Reflection in texture or image form A Fake Reflection. Rim Light - Light at the edge of the object. All RealToon Shader All RealToon Shader All Render Pipelin Befraction Shader All Render Pipelin Depth Refraction Shader Built-In RP/3D		All RealToon Shader	All Render Pipeline
- Customize light direction for shades Useful on Anime/Cartoon model face. Reflection - Reflection - Reflection in texture or image form A Fake Reflection. Rim Light - Light at the edge of the object. All RealToon Shader All RealToon Shader All Render Pipelin Depth Refraction Shader Built-In RP/3D Near Fade Dithering	Custom Light Direction		
FReflection - Reflection in texture or image form. - A Fake Reflection. Rim Light - Light at the edge of the object. Depth Refraction Shader All RealToon Shader All Render Pipelin Refraction Shader Built-In RP/3D Near Fade Dithering	- Customize light direction for shades.	All RealToon Shader	All Render Pipeline
- Reflection in texture or image form A Fake Reflection. Rim Light - Light at the edge of the object. All RealToon Shader All Render Pipelin All RealToon Shader All Render Pipelin Refraction Shader Built-In RP/3D Near Fade Dithering	Reflection	All RealToon Shader	All Render Pipeline
- A Fake Reflection. Rim Light - Light at the edge of the object. All RealToon Shader All Render Pipelin Depth Refraction Shader Built-In RP/3D Near Fade Dithering	FReflection		
- Light at the edge of the object. All RealToon Shader All Render Pipelin Depth Refraction Shader Built-In RP/3D Near Fade Dithering		All RealToon Shader	All Render Pipeline
- Light at the edge of the object. All RealToon Shader All Render Pipelin Depth Refraction Shader Built-In RP/3D Near Fade Dithering	Rim Light		
Near Fade Dithering Default Shader LIPP and HDPP		All RealToon Shader	All Render Pipeline
Default Shader LIPP and HDPP	Depth	Refraction Shader	Built-In RP/3D
Object fodes when the camera is pear. Default Shader URP and HDRP	Near Fade Dithering		
- Object faces when the camera is near.	- Object fades when the camera is near.	Default Shader	URP and HDRP
Triplanar	Triplanar		
- For a uniform texture scale and tiles. Default Shader URP and HDRP	- For a uniform texture scale and tiles.	Default Shader	URP and HDRP
Perspective Adjustment	Perspective Adjustment		
- This will adjust the perspective of your object to look 2D Toon/Anime or Default 3D.	Default 3D.		
[Note] Default Shader URP and HDRP *Currently, turn off Screen Space Shadow on URP [Forward and Forward+] when using this, it will make the shadow distorted.	*Currently, turn off Screen Space Shadow on URP [Forward and Forward+]	Default Shader	URP and HDRP
*On URP [Deferred and Deferred+] no need to turn off Screen Space Shadow .	*On URP [Deferred and Deferred+] no need to turn off Screen Space Shadow .		
Smear Effect	Smear Effect		
- Trail lines or Line noise effect when an object moves fast, like the Anime/Cartoon.			
[Note] *For this to work, you need to add the Smear Effect [Helper] Component to your object. Default Shader URP and HDRP	*For this to work, you need to add the Smear Effect [Helper]	Default Shader	URP and HDRP
*Adjustable options are on the Smear Effect [Helper] component.	*Adjustable options are on the Smear Effect [Helper] component.		
*To Add: Click your object then click Add Component then RealToon>Tool>Smear Effect [Helper].			



Other Options	Shader Type	Render Pipeline
No Light and Shadow On BackFace (Default: Unchecked)		
- No light and shadow on the back side on a face of the object.	All RealToon Shader	All Render Pipeline
[Note] * Useful for objects that are plane or quad.		·
Hide Directional Light Shadow (Default: Unchecked)		
- Hide Directional Light cast shadow and received shadow on the object.	All RealToon Shader	All Render Pipeline
Hide Point & Spot Shadow (Default: Unchecked)		
- Hide Point and Spot Light cast shadow and received shadow on the object.	All RealToon Shader	All Render Pipeline
Hide Cast Shadow (Default: Unchecked)		
- Hide or disable object cast shadow.	Fade Transparency	Built-In RP/3D
Hide Contact Shadow (Default: Checked)		
- Hide or disable cast and received contact shadow.	Default Shader	HDRP
Disable Cast Shadow (Default: Checked)		
- Disable object cast shadow.	Default Shader	URP and HDRP
ZWrite (Default: On)		
- Turn on Z Depth on object.	All RealToon Shader	All Render Pipeline
Disable DOTS Mesh Deformation (Default: Checked)		
- Disable DOTS Mesh Deformation: Linear Blend Skinning and Compute Deformation.	Default Shader	URP
[Note] * Enable this for Static Objects.		
Receive Decal (Default: Checked)		
- The object will able to receive Decals .	Default Shader	URP
Optimize for [Light Mode:Baked] (Default: Unchecked)		
- This will disable all real time features on the shader and optimize it for [Light Mode: Baked]	Default Shader	URP
[Note] * Disable or uncheck this for [Light Mode: RealTime or Mixed] use.		



Automatic Remove Unused Shader Keywords (Default: Unchecked)		
- Remove unused shader keywords automatically in all materials with Realtoon Shader.		
[Note]		
* Warning: This will also remove stored previous shaders shader keywords.) * This will take effect once this enabled and when the RealToon Inspector shown.	All RealToon Shader	All Render Pipeline
* You can just enable and disable it right away just to remove the unused shader keyword		
* Disable this if you experience too slow Inspector.		
Recursive Rendering (Default: Unchecked)		
- A replacement pipeline for rendering Meshes in the High Definition Render Pipeline (HDRP) .		
[Note]	Default Shader	HDRP
* This option will only work on DXR/Ray Tracing enabled project.		
* Enable transparency to be visible on a reflective surface.		
* Ptexture feature and Pattern Style option will not work on this. *If enabled, object will not receive Ray Traced Global Illumination.		
ij enabled, object will not receive nay Traced Global Illumillation.		

RealToon Inspector Bottom Toolbar	Shader Type	Render Pipeline
Remove Outline (On Shader) Add Outline (On Shader) - Remove or Add the outline on the shader. [Note] * This is NOT PER-MATERIAL. *THIS WILL MODIFY THE SHADER FILE to remove or add the outline on the shader.	Default Shader	URP and HDRP
Refresh Settings - This will refresh and re-apply the settings properly. [Note] * Click this if there are some problem, after you update, after material reset or re-import RealToon.	Default Shader	URP and HDRP
- RealToon video tutorials.	All RealToon Shader	All Render Pipeline
RealToon (User Guide).pdf - RealToon user guide or documentation.	All RealToon Shader	All Render Pipeline



Hide UI		
- Hide RealToon inspector UI. [Note] * This is NOT PER-MATERIAL. *This is Global.	All RealToon Shader	All Render Pipeline

Settings	Shader Type	Render Pipeline
Change Shader Compilation Target to 2.0 or 4.5		
- This will change the Shader Compilation Target of the RealToon Shader file to '2.0' or '4.5'.		
[Note] *If the Shader Compilation Target is changed to 4.5, the shader will support DOTS/DOTS Hybrid Renderer, GPU Resident and Tessellation. *GPU Resident available on Unity 6 and beyond. * This is NOT PER-MATERIAL.	Default Shader	URP
DOTS HR – Use Compute Deformation or Linear Blend Skinning		
- Will let you change from Compute Deformation or Linear Blend Skinning.		
- For more information about Compute Deformation see : <u>Unity - Compute Deformation</u>		
- For more information about Linear Blend Skinning see : <u>Unity - Linear Blend Skinning</u>	Default Shader	URP
[Note] *This will only visible if your project is on DOTS and Hybrid Renderer and Compilation Target is on 4.5. *Use Compute Deformation for blend shape support. * This is NOT PER-MATERIAL. *If your object is static, it is recommend to enable		
<u>Disable DOTS Mesh Deformation</u> option.		
Add Remove 'See Through' feature		
- This will add or remove the See Through feature.		
[Note] *See Through is default remove, if you need it or want to use it just Add it again by clicking this setting. *Your See Through option settings will not be remove even if you remove or add the See Through feature. * This is NOT PER-MATERIAL.	Default Shader	URP



[Important Notes/Tips]

A. You can control the properties of the shaders in your code. To see/access the shader properties, just go to RealToon Shaders folder and select the shader you want to access.

If you want to learn how to access shader properties by code, just visit this link: <u>Unity Doc - API Script - Material</u>

- B. If you are going to use RealToon URP or RealToon HDRP for environment object, Just disable the **Outline** because the custom outline pass on the shader, can't be batch.
- **C.** To use **RealToon URP** on a **DOTS Hybrid Renderer** project, change the **Shader Compilation Target** to **4.5** under the **Settings** section. RealToon HDRP is already Shader Compilation Target 4.5.
- D. To use GPU Resident on RealToon URP, just change the Shader Compilation Target to 4.5 under the **Settings** section, On **RealToon HDRP**, no need to change. GPU Resident available on Unity 6 and Beyond.
- E. Disable Outline if your object/s don't need outline or if you don't want to use outline and want less draw calls or want to use a 3rd party image effects/Post Processing outline.
- **F.** Adjust **Reduce Shadow** to reduce unwanted object self cast shadow, especially shadow artifacts.
- G. To properly color shadow, Adjust Lighting -> Environmental Intensity to 0 then change your object shadow color, after that, change Environmental Intensity back to 1 or your own value.
- H. Note that tessellation only work on DX11/12 to up, OpenGL Core, OpenGL ES 3.1 mobile & PS4/XBoxOne and Shader Model 4.6 to up.
- I. You can use RealToon together with Unity3D Standard Shader or your other shaders.
- J. You can use **ShadowT** as 2nd self shadow/shade.
- **K.** You can use both **Directional Light** & **Point Spot light** at the same time.
- **L.** If you want a manga/comics look, use **PTexture** and use a half tone texture. *Adjust Saturation to 0 if you want that Black and white look and you don't want to edit the texture again.
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- M. Always Change the Overall Shadow Color to White if you want to color other shadow features like ShadowT & Self Shadow and use PTexture.
- N. Enable Light Affect Shadow if you want your shadow to be affected by lights.
- **O.** Fade Transparency & Refraction doesn't receive shadows.
- P. Use ShadowT for more detailed or additional shadows like the shadows on a cloth or hair.
- Q. For better Anime/Toon shadow/shading, edit the Vertex Normal of your model by editing it to your 3d modeling software or use Smooth Object Normal feature or override object normal by using Normal Map.
- R. Use Custom Light Direction if you don't want Self Shadow & ShadowT to not follow the Light Direction by script. Useful for anime style faces.
- **S.** Adjust **Outline Offset** if you want to adjust the outline position.
 - * For silhouette outline effect, just adjust **Outline Z Position In Camera** option.
- **T.** Image Gallery: http://mjq3690.deviantart.com/gallery/61884975/RealToon-Shader-Gallery
- **U.** Video Tutorials: https://www.youtube.com/playlist?list=PLOM1m9smMVPJ4qEkJnZObqJE5mU9uz6SY
- V. Game & Other Uses Demo (Video): https://www.youtube.com/playlist?list=PLOM1m9smMVPI1XRV_1UL_Vz3IAHkPtQYT
- W. Film/Animation Demo (Video): https://www.youtube.com/playlist?list=PL0M1m9smMVPLypGRie4Q7yBgxBtl866Yf



[Contact/Support/Social Network]

Facebook Page:

https://www.facebook.com/mjqstudioworks/

Bluesky:

https://bsky.app/profile/mjqstudioworks.bsky.social

X:

https://twitter.com/mjqstudioworks

YouTube:

https://www.youtube.com/channel/UC5sHbeOQdyMPV Ck0kRgJgQ

MJQ Studio Works Unity Publisher Profile (Support Links & Email):

http://u3d.as/vDv

Unity 3D Forum:

https://discussions.unity.com/t/realtoon-an-aaa-toon-anime-shader-and-stylized/632467

Website:

https://mjqstudioworks.weebly.com/