

Seamless is a powerful graph builder integrated in the Unity Editor. It allows you to bake beautiful procedural textures from noise or geometric primitives, coupled with mathematical operations, image filters, etc.

Seamless works natively with any render pipeline on any Unity version above 2018.1.

Contents

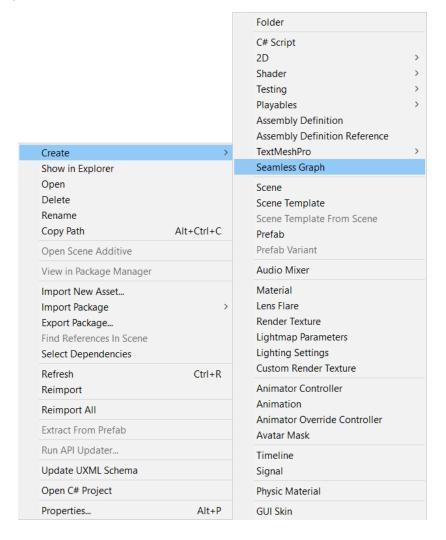
1	Setup	2
2	Basics	2
3	Navigation	3
4	Node List	6
5	References	9
6	Contact	9

1 Setup

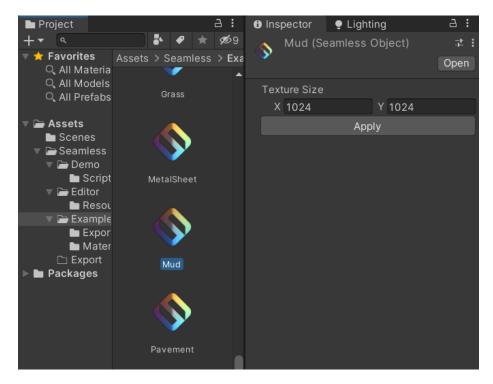
The whole package is contained in the Seamless folder resulting from the import. You can move it wherever you want, but it is recommended to keep the same folder structure.

2 Basics

You can create a new Seamless graph from the right-click context menu in the project window.



Each graph is saved as a SeamlessObject in a .asset file. You can recognize them with the seamless logo. You can change the texture size from the inspector.

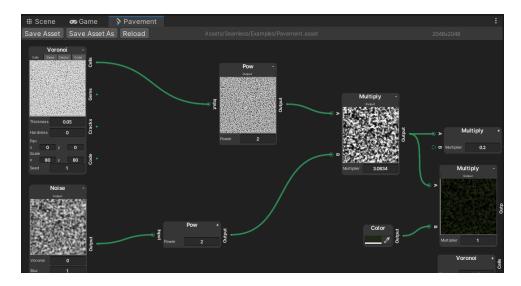


You can open a graph by double-clicking on it. On Unity 2019.2 and above, the window will try dock itself next to the scene window, otherwise it will appear as a floating window, that you can dock manually.

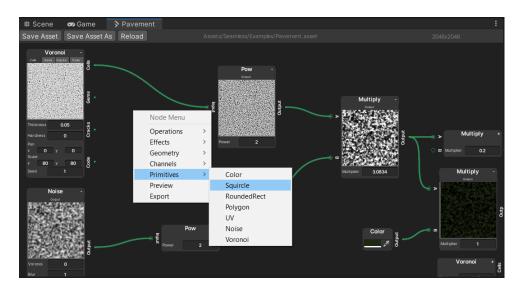
3 Navigation

The navigation in the main canvas is similar to other graph editors such as Shadergraph or the animator. You can zoom in/out using scroll wheel, move by click & drag on the mouse scroll wheel. Nodes can be selected by clicking on it, or by drawing a selection rectangle. You can drag selected nodes to move them. You cannot select or interact with links: they are 100% visual. To add a link, you must click and drag from an output, links cannot be created backwards. To remove a link you must remove one of the nodes it connect, or connect another link to the same output node.

There is a header on the top of each window containing information and buttons to save, save as, and reload the graph.

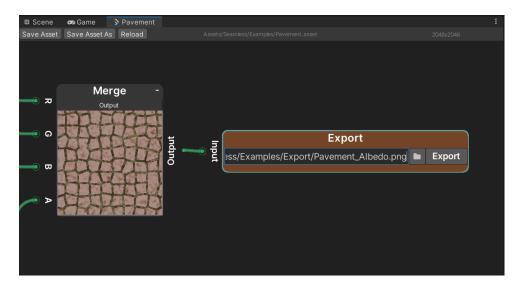


To create a new node, just right click on the canvas and a context menu will appear. You can also start building a link and releasing the mouse left button in a free space, the same context menu will appear and the link will be associated with the first input (if there is any) of the added node. You can cancel by pressing ESC twice.



Some nodes contain one or several parameters. You can change their value as a text edit or as a slider with the mouse.

Once you are happy with a result, you can export it as a static image using an Export node. You can use as many Export nodes as you want. So far, Seamless only supports PNG export.



You can browse the path by clicking on the Folder icon. Make sure you select a path included in the Assets folder of your project.

4 Node List

• Preview:

Does nothing. Displays the input as it is.

• OneMinus :

Computes the negative or R, G and B. Keep Alpha untouched.

Add :

Adds A and B channel-wise. Clamps automatically between 0 and 1.

• Subtract:

Subtracts A and B channel-wise.

• Multiply :

Multiplies A and B channel-wise. A multiplier float field let you ajust the result.

• **Pow** :

Applies the mathematical power function to Input with a float exponent.

• Divide

Divides A by B channel-wise.

• Clamp:

Clamps Input between Min and Max float parameters.

• Step

Binarizes the input channel-wise, using a float edge between 0 and 1.

• Blur:

Applies Gaussian Blur to the input, using a float radius and an integer steps number parameters.

• EdgeDetection :

Performs the input's edge detection. You can adjust the steps number in pixels.

• Normal:

Computes normal map from a given heightmap. Only the red channel of the input is considered. You can adjust the strength of the normal effect with a float parameter.

• Barrel:

Applies Barrel Distortion algorithm to the input. The power is controlled by a float parameter.

• Spherize :

Maps the input on a sphere.

• Curvature:

Computes the curvature of the input. Useful for ambient occlusion estimation.

• TilingOffset :

Tiles and/or offsets the input following the given parameters.

• Rotate:

Rotates the input of the given angle in degrees.

• HFlip :

Flips the input horizontally.

• VFlip:

Flips the input vertically.

• Split:

Splits the 4 channels of the input into 4 B&W outputs.

• Merge

Creates a RGBA output from 4 inputs. Only the red channel of each input is considered.

• Color:

Outputs a uniform color determined by a color picker.

• RenderTexture :

Outputs the given RenderTexture. If the render texture size is different than the one defined in the graph settings, the input texture will appear bigger/smaller accordingly on the children nodes.

• Squircle:

Creates a squircle according to the given parameters.

• RoundedRect :

Creates a rounded rectangle. Useful for capsule too.

• Polygon:

Creates a polygon according to the given parameters

• UV

Creates a UV gradient. Horizontal linear gradient in R, vertical linear gradient in G, 0 in B and 1 in A.

• Noise :

Creates tilable IQ noise according to the given parameters

• Voronoi :

Creates tilable voronoi noise according to the given parameters. Additionnal corollary outputs are also provided.

• Export :

Let the user export a PNG image from the input. The image will have the same size as in the graph settings. If you export a normal map, don't forget to apply the right import settings, Seamless won't do it automatically.

5 References

https://galloscript.itch.io/texgraph

6 Contact

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Seamless is free on the asset store, but you can make a donation on

www.paypal.me/RiseDownPiano