## Apophysis Tutorial – Gnarls by ~Drummerboy08

For Any version of Apophysis Made Using Apophysis 7x

Gnarls are, to my knowledge, one of the more popular forms of fractal art, yet I have not seen any tutorials on how to create a Gnarl. The purpose of this tutorial is to help you create your own Gnarl, as well as understanding how it is made so you can can branch out and experiment with them for yourself. However, it is worth nothing that gnarls are a fairly difficult technique to master, as they are quite sensitive to those not careful, and being such, this is quite a long tutorial, please take your time to understand it fully, and have fun! Let's begin by opening the Transform Editor and creating a new blank flame & Transform Editor

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Step 1: Change the transform's weight to 0.15. In transform 1, switch to the Variations tab. Clear out linear3D and input the following values:

Linear = 1Transform: 1 Name: 0.15 Weight:

Radial Blur = 1 In the Variables Tab, input Triangle Colors Transform radial blur angle = 1Variations Variables Xaos Your result should match the Variation Value one at the right. linear 1 Transform: 41 radial blur 1 **Step 2:** Create a new transform 2. Clear out linear 3D input the following values:

Transform: 2

10 waves 2 scalex = 0.05Weight: waves 2 freqy = 2Triangle Transform Colors waves 2 scaley = 0.2Variables

Variations

waves2\_freqx

Variable

Name:

Waves 2 = 1

 $waves2\_freqx = 2$ 

Transform weight = 10

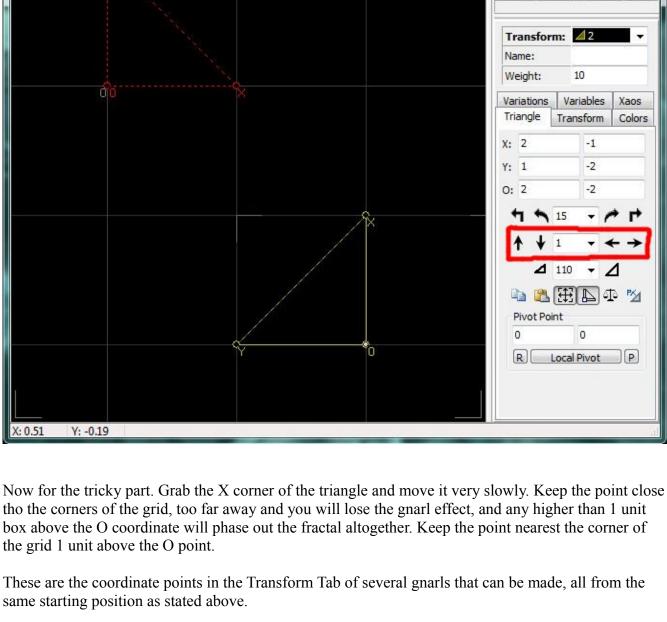
Its not looking like a whole lot

waves2\_scalex 0.05 right now, just a few points Transform: 2 waves2\_freqy across the frame. That will waves2\_scaley change shortly. Step 3: Set the zoom to -1.5 or similar value. This will aid in seeing the gnarls as they form. Select Transform 2. In the Triangle tab, rotate the triangle 90 degrees counterclockwise. Move the triangle **down and to the right by 2 units**(not 0.2, you will have to change the movement value.) & Transform Editor 

Xaos

Value

2



Transform: 2 Transform: 2

4 Gnarls\*

Name:

Weight:

Variations

-0.02

Triangle

Variables

0.97

Transform

Xaos

Colors

**6 Gnarls** 

waves 2 freq x = 6

Triangle

Variable

waves2 freqx = -6

Weight:

Triangle

Variable

Variations

waves2\_freqx

waves2\_scalex

waves2 freqy

waves2\_scaley

10

Transform

Variables

Value

0.5

0.05

waves 2 scaley = 0.2

waves2 scaley = -1.2

Transform: 2

- 0

Transform: 3

0.5

Transform

Variables

-0.1

0.25

Colors

Name:

Weight:

Triangle

linear

Variations

hyperbolic

checks

Name:

-4

Colors

Xaos

Variations

waves2\_freqx

waves2\_scalex

Colors

Xaos

Transform

Variables

Value

6 0.05

0.5

0.2

3 Gnarls

10

Transform

0.97

Xaos

Colors

Variations Variables

-0.98

Name:

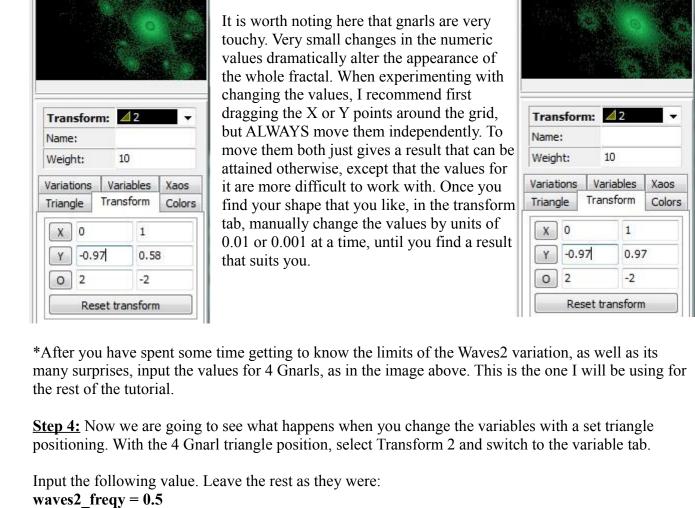
Weight:

Triangle

X

5 Gnarls





waves2 freqx = 4\*\*

Now drag the value of waves2 freqx to both high numbers, as well as low numbers, well into negative values. Watch what happens to the fractal as you change it; it increases the number of total gnarls in the

Transform: 2 Transform: 2 Transform: 2 Name: Name: Name: Weight: 10 Weight: 10 Weight:

Transform

Variables

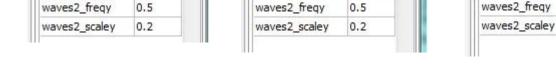
Value

0.05

4

Colors

Xaos



Triangle

Variable

Variations

waves2\_freqx

waves2\_scalex

whole fractal, while still retaining the base of 4 from the absolute center.

The following are examples of several different values of the above.

waves2 freqx = 2

Transform

Variables

Value

0.05

2

Triangle

Variable

Variations

waves2\_freqx

waves2\_scalex

Weight:

Triangle

Variable

middle.

Variations

waves2\_freqx

waves2\_scalex

waves2\_freqy

waves2\_scaley

waves2 scalex = 0.2

waves 2 scaley = 0.2

Transform: 2

Name:

Adjustment

Zoom

X position

Y position Rotation

Apo3D-091220-25 Elapsed 00:00:01.77

Transform: 43

Transform

Variables

Symmetry = 0.915

3 P 🔁 3 🗐 500

Value

Colors

Xaos

transform 2. input the following value:

watch how it changes the color of the fractal.

Name:

Weight:

Triangle

Variation

curl

Variations

Transform

Variables

Value

0.5

0.05

2

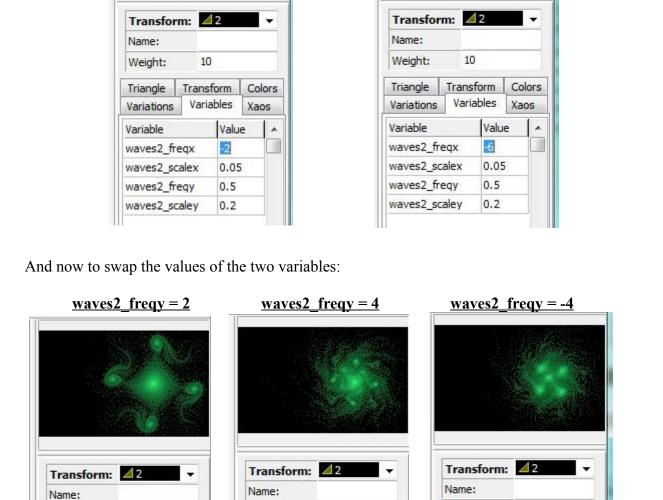
0.2

Colors

Colors

waves2 freqx = -2

Xaos



10

Transform

Variables

Value

0.5

0.05

4

0.2

Notice what making the value to negative does: it makes the gnarls appear to swirl towards the middle, making the gnarls much tighter, rather than the looser positives, where they seem to come from the

waves2 scaley = 0.05

waves 2 scaley = 0.05

Transform: 2

Name:

Xaos

Weight:

Triangle

Variable

Now, for the last set of variables, the scale, use the variables marked \*\*.

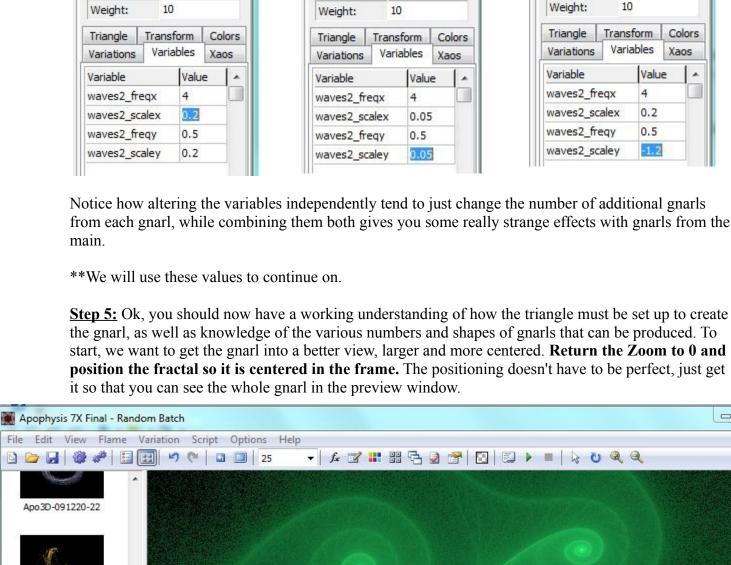
Variations

waves2\_freqx

waves2\_scalex

waves2\_freqy

waves2\_scaley



19

2

Tutorial

Transform: 43

0.5

Transform

Variables

Colors

Step 6: Now for the last part, coloring the fractal. Start by choosing a gradient that you like, then select

Leave the symmetry of all other transforms at 0 for now. Take the color bar, and drag it slowly, and

- f<sub>e</sub> 🗹 🔡 🔡 🔁 📓 🚰 🔃 🗓 🕨 🔳 🖟 😈 🔍 🍳

Xaos

Name:

Weight:

Triangle

Variation

hexes

bipolar

Variations

0.15

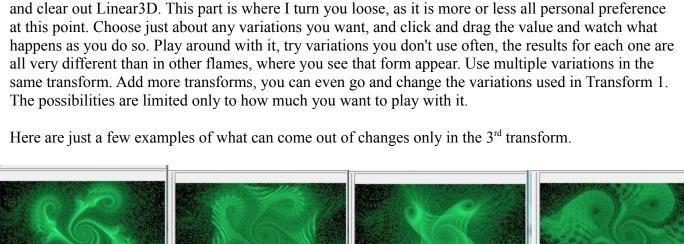
Depth blur

Pitch Yaw Height Perspective 0 Scale

Remaining 00:00:00.00

🌃 Camera 🏽 🎡 Rendering 🔡 Gradient 🔁 Image Size

0 0



Transform: 3

0.5

Transform

Variables

0.35

Colors

Xaos

Name:

Weight:

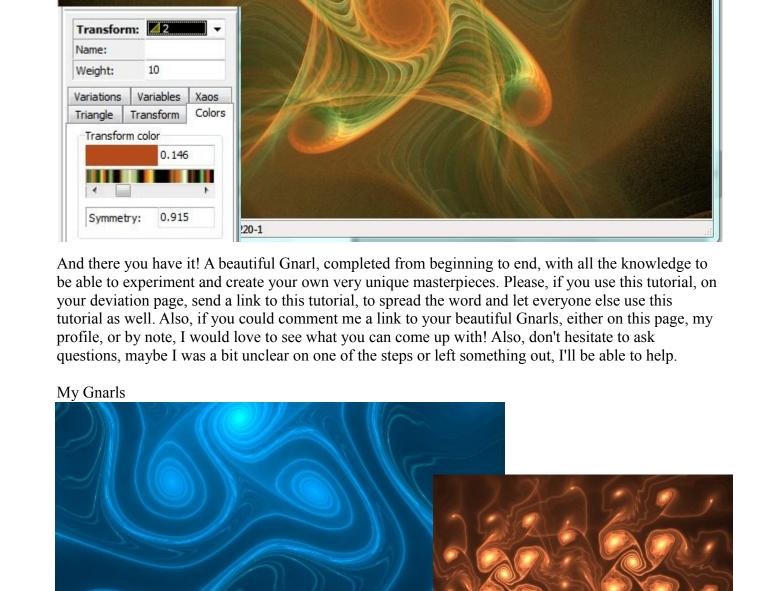
Triangle

Variations

spherical

horseshoe

Now, for the fun part. We are going to experiment with texturing the gnarl. Create a new Transform 3,





First, I have to thank Fiery-Fire for her parameters on Gnarlomania at http://fiery-fire.deviantart.com/art/Gnarlomalia-101245239 Without these parameters to study, I would have never been able to make a gnarl in the first place, let alone know enough to make a tutorial.

Also, for this tutorial I have made use of Xyrus02's Apophysis 7x which can be downloaded at http://xyrus02.deviantart.com/art/Apophysis-7X-134116371 While this tutorial works with any version capable of using plugins, Apo 7x has several cosmetic changes that may make less experienced users confused, if they don't know what to look for.

Finally, this tutorial makes use of the plugin Waves2 which can be downloaded at http://phoenixkeyblack.deviantart.com/art/The-Aposhack-Plugin-Pack-98807426 I also have used other plugins, but those are not critical for this tutorial, as Waves2 is.