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# PRE AND POST VARIATIONS

MON JUL 20, 2015, 1:26 AM

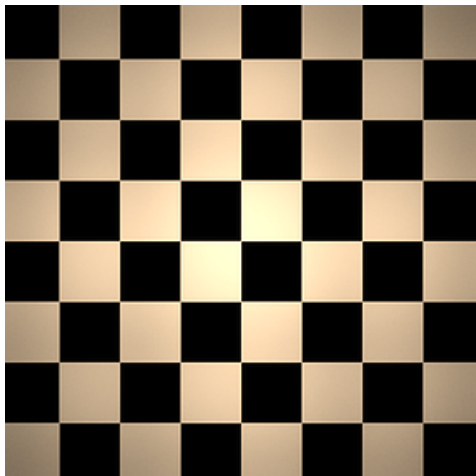
A quick tutorial about how variations (transforms), `pre_variations` (`pre_transforms`) and `post_variations` (`post_transforms`) work. Specifically, what happens when there is a mix of variations, for example. Or several post variations together.

Shortly, pre and post variations work same way as pre and post linked transforms. As a consequence, there are some things that are equivalent:

- `pre_variation` = a pre linked transform with the variation (normal one, not pre)
- `post_variation` = a post linked transform with the variation (normal one, not post)
- `variation1` + `post_variation2` on same transform = `pre_variation1` + `variation2` on same transform

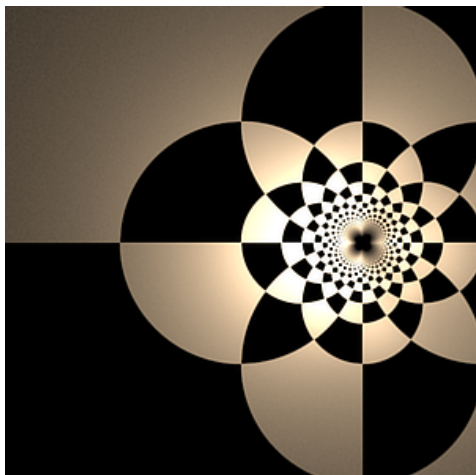
Below, we will only talk about the behaviour when they are mixed.

Lets start with a simple checkboard pattern. I will do all changes in the final transform (camera transform in chaotica). You may also use a shared linked transform to apply the variations to the whole pattern without breaking it. (Take a look at the params: [Checkboard](#))



Here, we will use the following variations: `curl` and `post_curl`, `crop` and `post_crop`. Make sure you have those.

`Curl` with `c1=1` (left) and `crop` (right) applied to the checkboard pattern (in the final transform) so we can picture what both of those do:



## Details

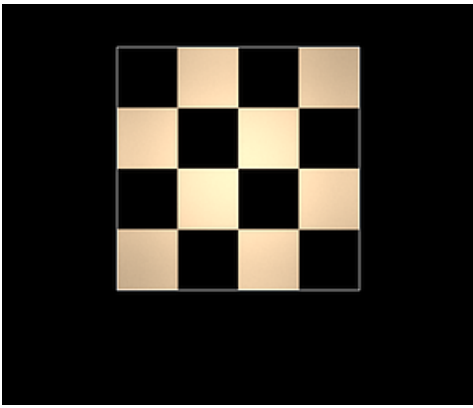
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## Stats

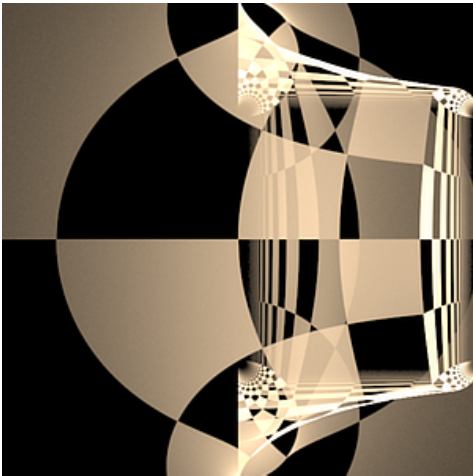
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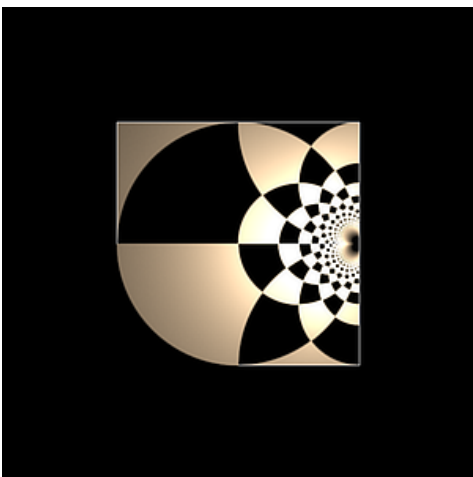
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When 2 variations are put together on the same transform, they add up: a sum of both formulae will be applied, not just one after the other. Lets add both curl with  $c1=1$  and crop to the same transform. See that the result is not like you applied crop then curl, or curl then crop, but something crazy.



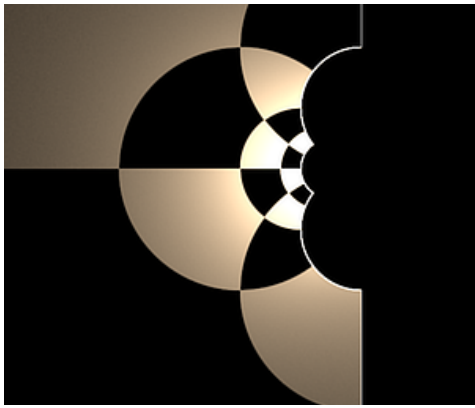
The pre and post transforms, on the other hand, are applied in sequence (the order is given by the variation order in apo, and by the order they are listed in chaotica). So if we apply post\_curl and post\_crop, the result will look like you first applied curl, then cropped the resulting curled checkboard:



Unfortunately, there is no simple way to change the order - you will need to either use a normal variation and a post one, or linked transforms. For example, if you want to apply crop then curl, you will need to apply just crop, and then add a linked transform with curl.



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6 COMMENTS



## Pre and Post variations

by [tatasz](#)  
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Add a Comment:

**Ragcat392** CORE Oct 21, 2020

I can't find the patterns on this app. I have watched several tuts, including yours, and the shapes elude me. Help.

Reply

**synkrotron** Dec 3, 2018 | Hobbyist Digital Artist

Hi Tatyana 🍌

I am just curious...

When I post the checkboard params into Chaotica I get the squares centred about 0,0 and therefore half squares at the edges whereas your example above shows the squares offset by half a square so that the corners of the middle squares are at 0,0 and full squares at the edges. Did I explain that well? Apologies if it sounds confusing.

I guess it doesn't matter for the tutorials. As I said, just curious.

cheers

andy 🍌

Reply

**tatasz** CORE Dec 9, 2018 | Hobbyist Digital Artist

it could be a matter of positioning (i possibly got distracted and pasted some older params).  
To re-position it, try moving the post transform for the square

Reply

**synkrotron** Dec 10, 2018 | Hobbyist Digital Artist

Okay, will do, thanks 🍌

Reply

Reply

**sunam1** Edited Mar 10, 2018 | Professional Interface Designer



Mar 22, 2018 | Hobbyist Digital Artist

(sorry for delay)  
final transform = camera transform in chaotica, which is available in  
1.5.8 (update ^^)  
pre and post can be applied on any iterator, and are a lot of fun 🤖

Reply

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