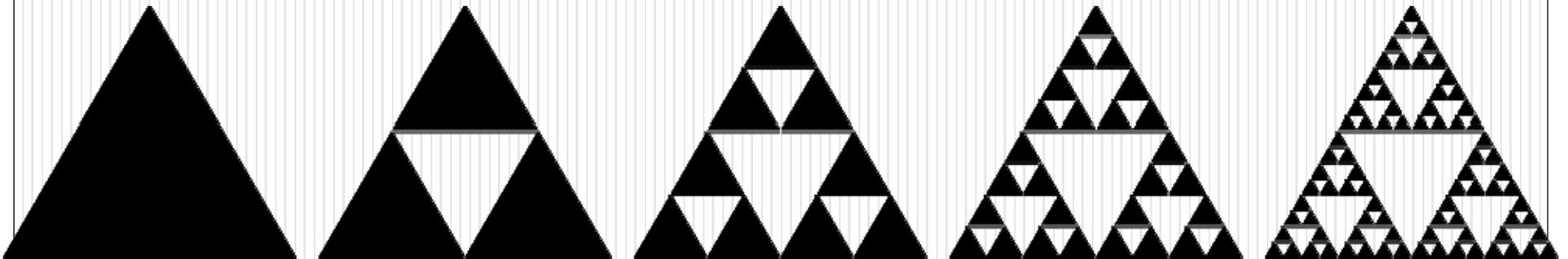
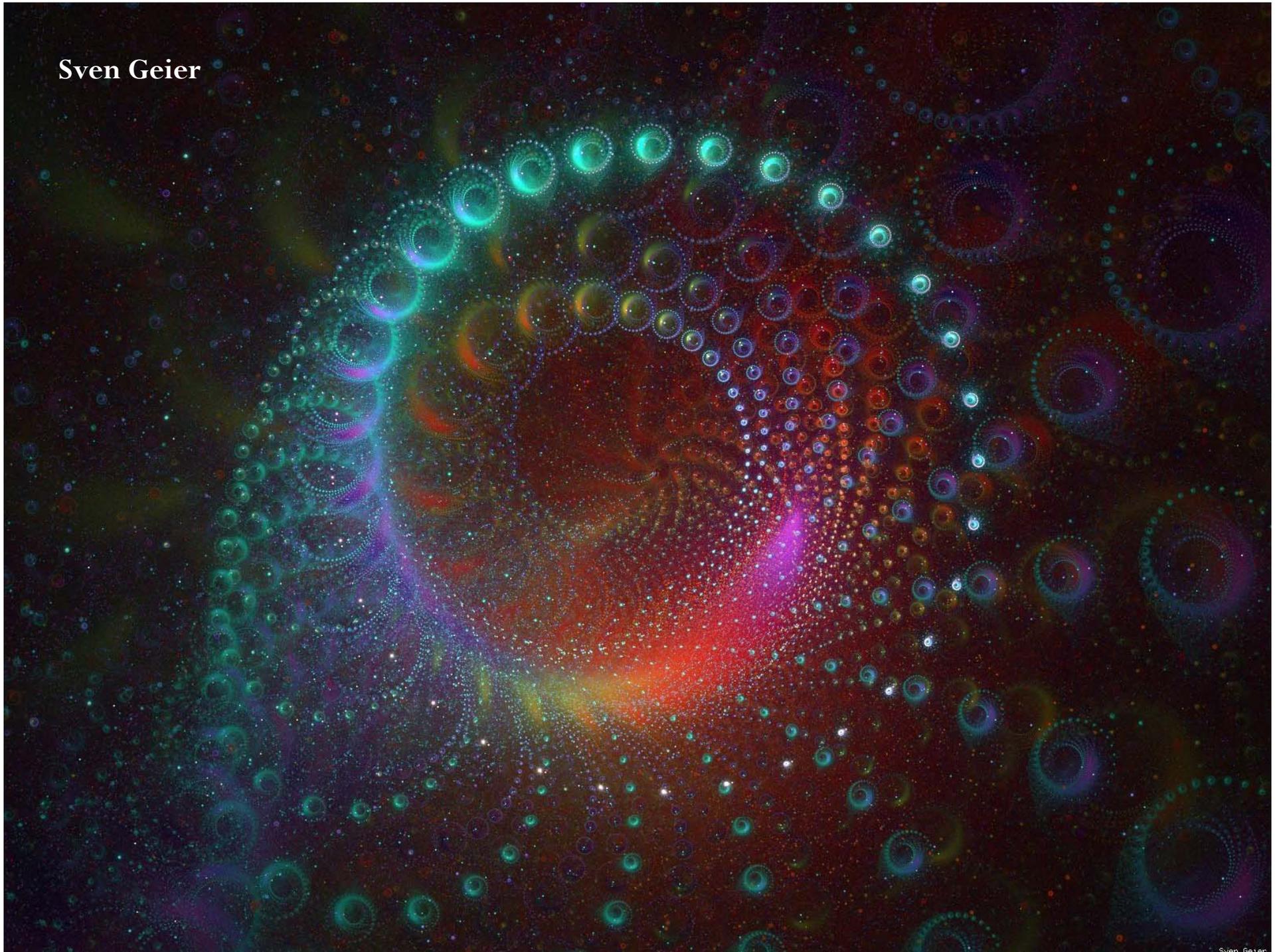


Fractals

Mathematical process that can model nature and look like art.



Sven Geier



Fractals

A multicultural look

“The messages encoded in the designs (...geometric designs) are like prayers.”

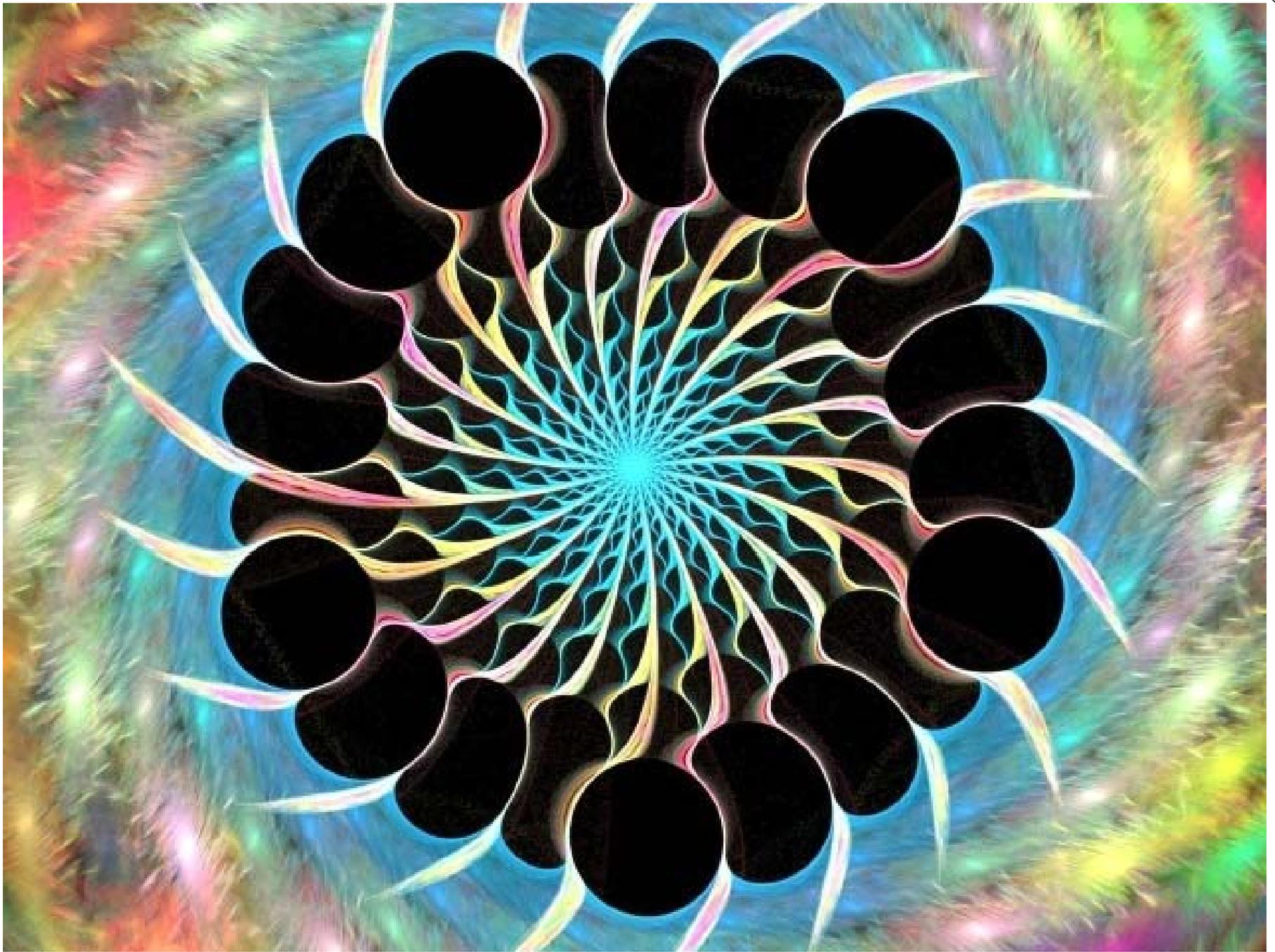


Elizabeth Woody



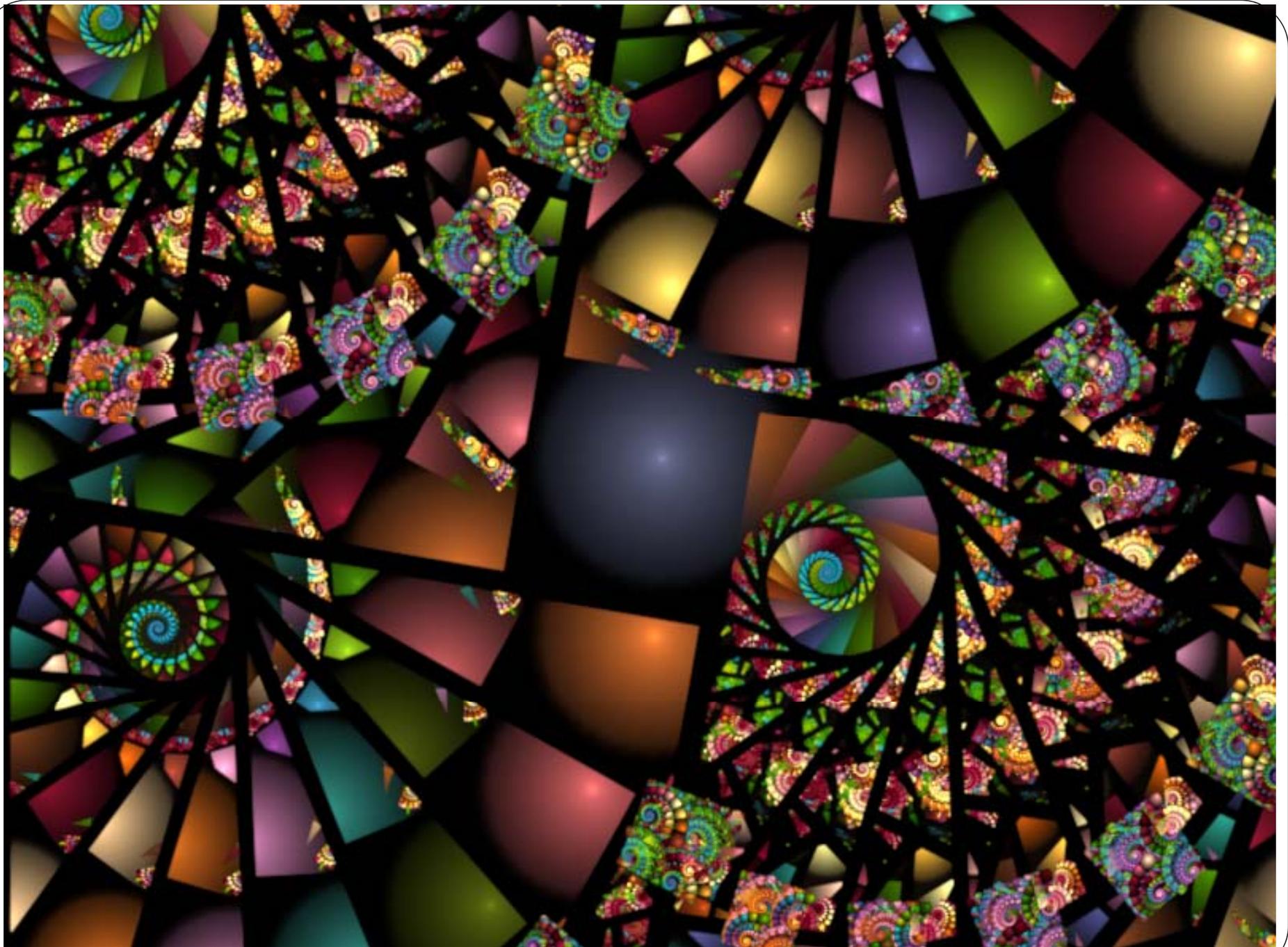
- Prayerful symbols woven into Navajo rugs
- Geometric porcupine quill design of my medicine bag
- My daughter stuffing the doll she crocheted for me with prayers before she closed the stitching
- Kia is an artist and a software engineer:
- She introduced me to fractals.



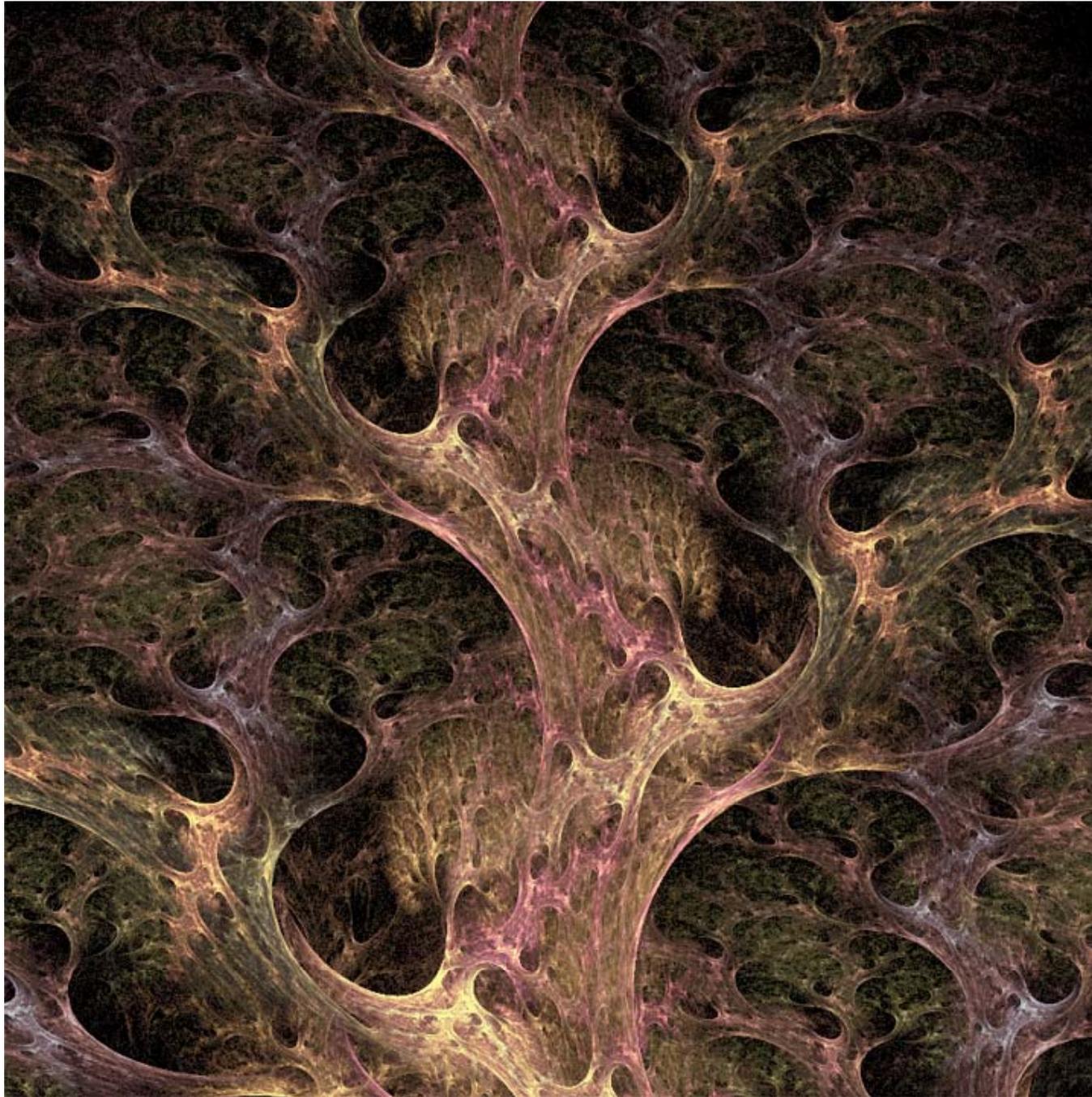


Fractal Geometry

A geometric shape that can be split into parts, each of which is a reduced-sized copy of the whole
(Wikipedia)



<http://v2d7c.sheepserver.net/cgi/dead.cgi?id=1167>

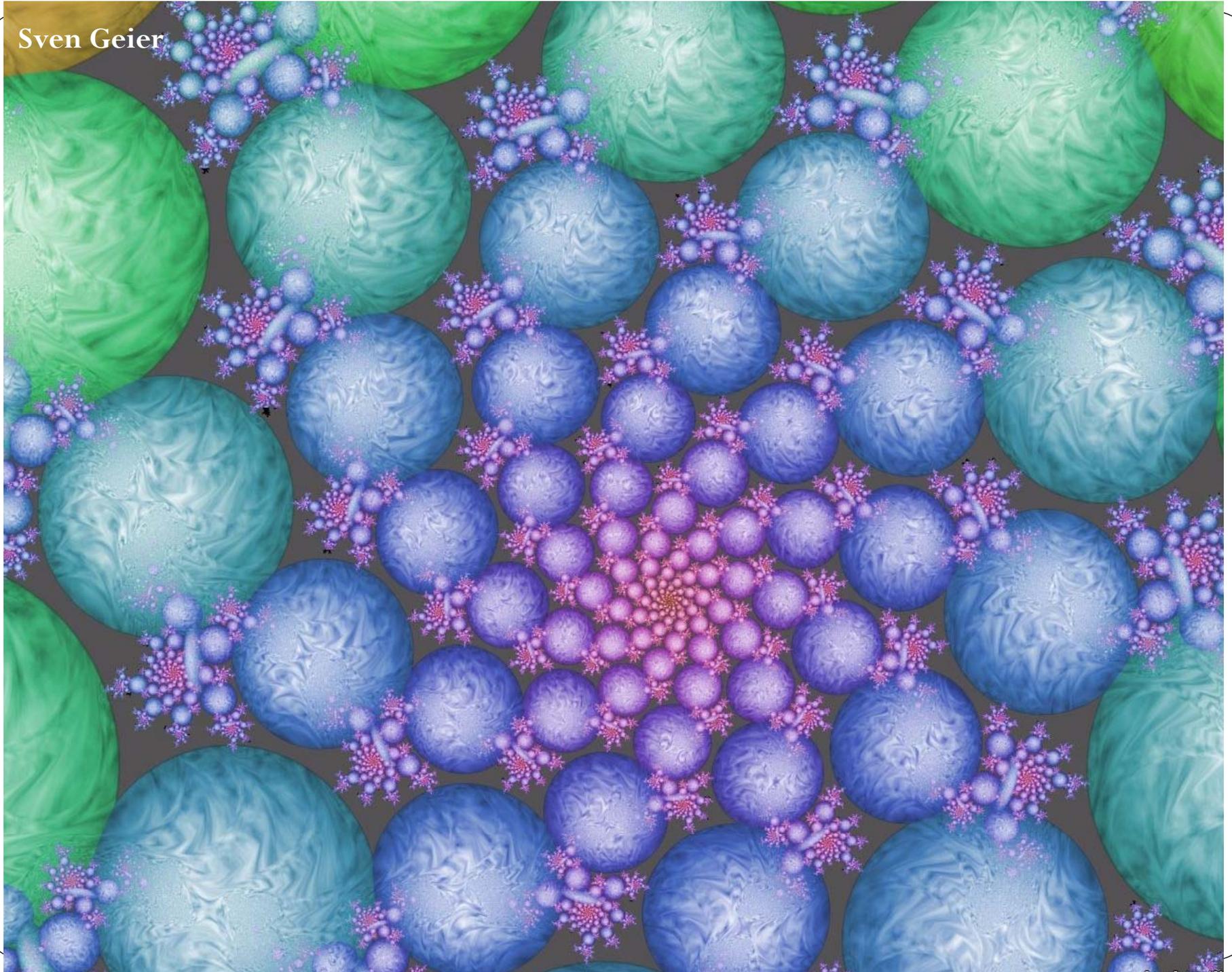


Fractals can model the way animals or plants grow.

Fractals

College-level mathematics that can be appreciated in middle school.

Sven Geier



Fractals

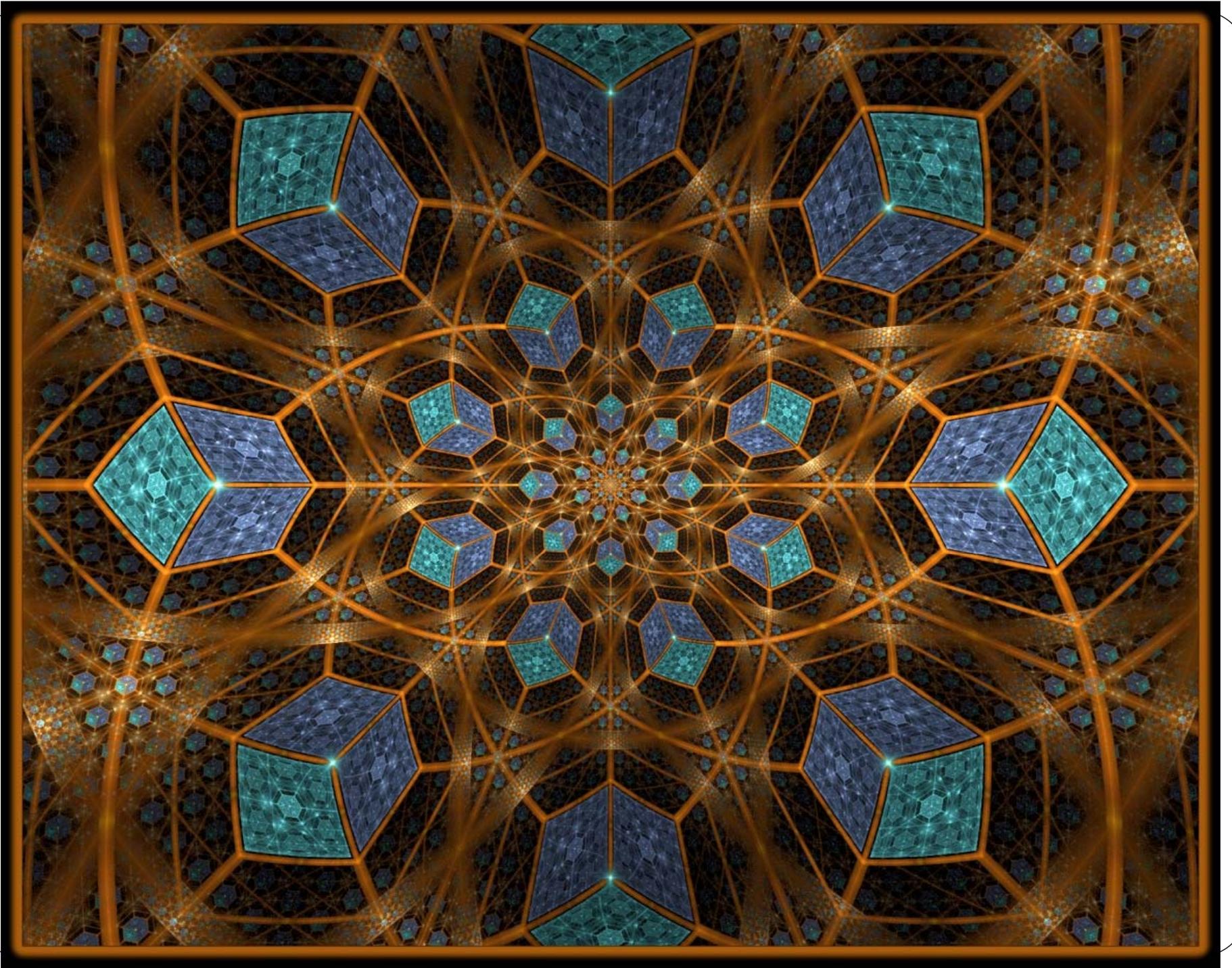
- Scale: iterations of the design are a different scale from the original.
- Relate to Math 7.2.D "Make scale drawings and solve problems."

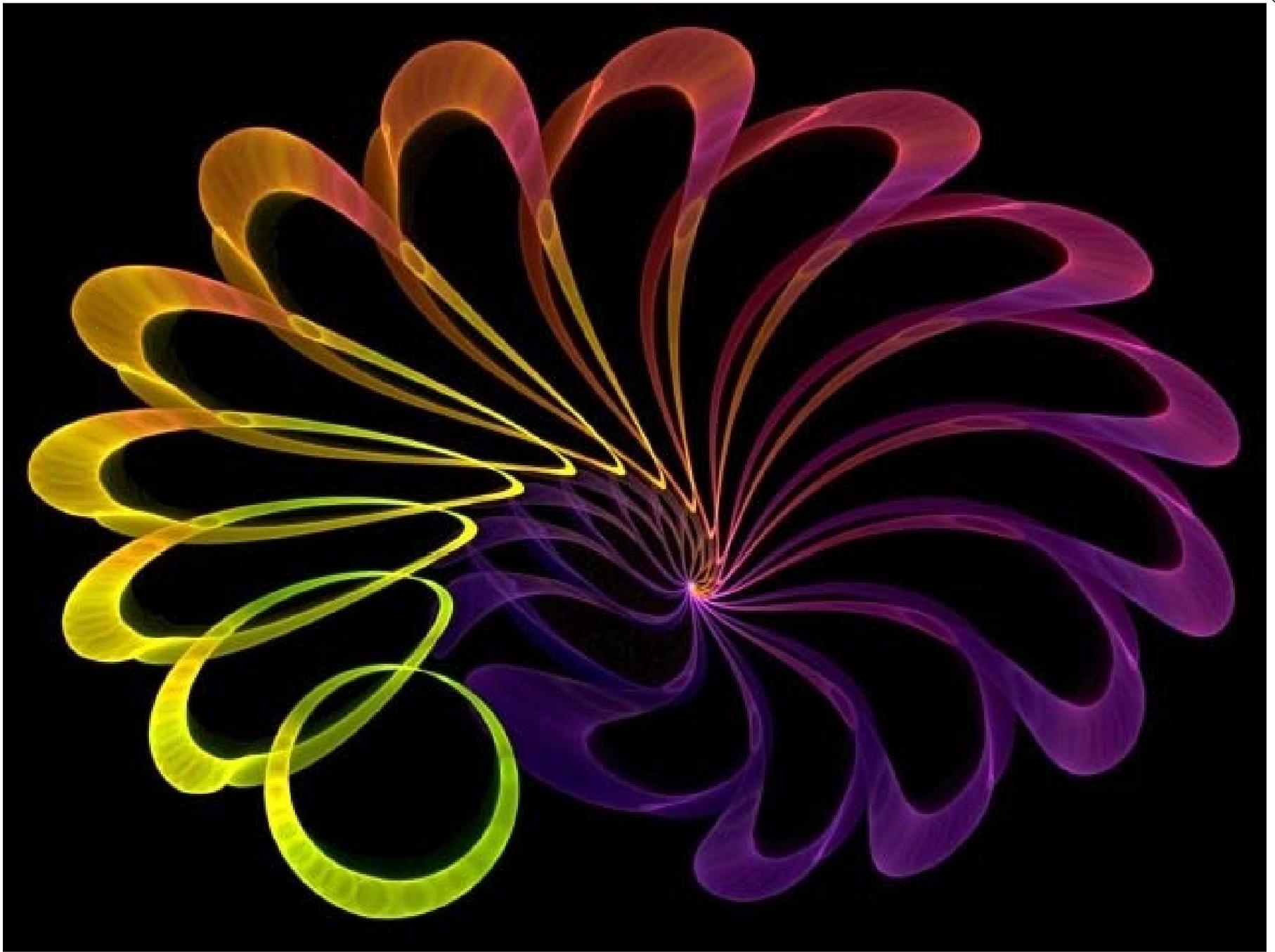


<http://www.enchgallery.com/fractals/fractalpages/bubble%20machine.htm>

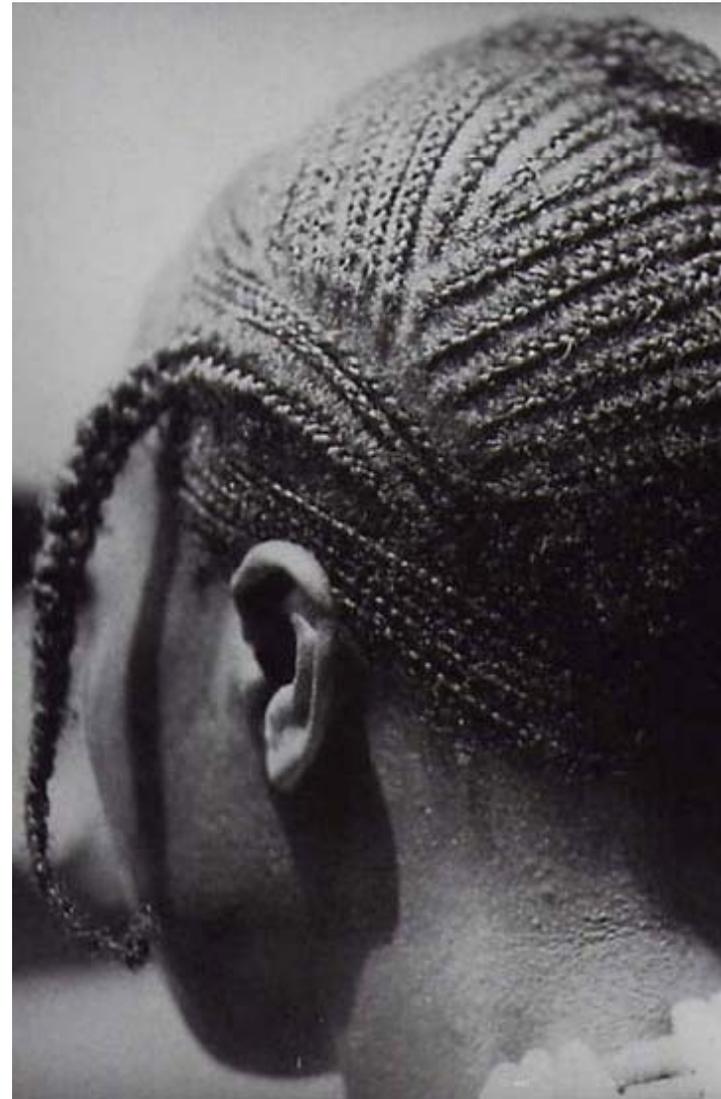
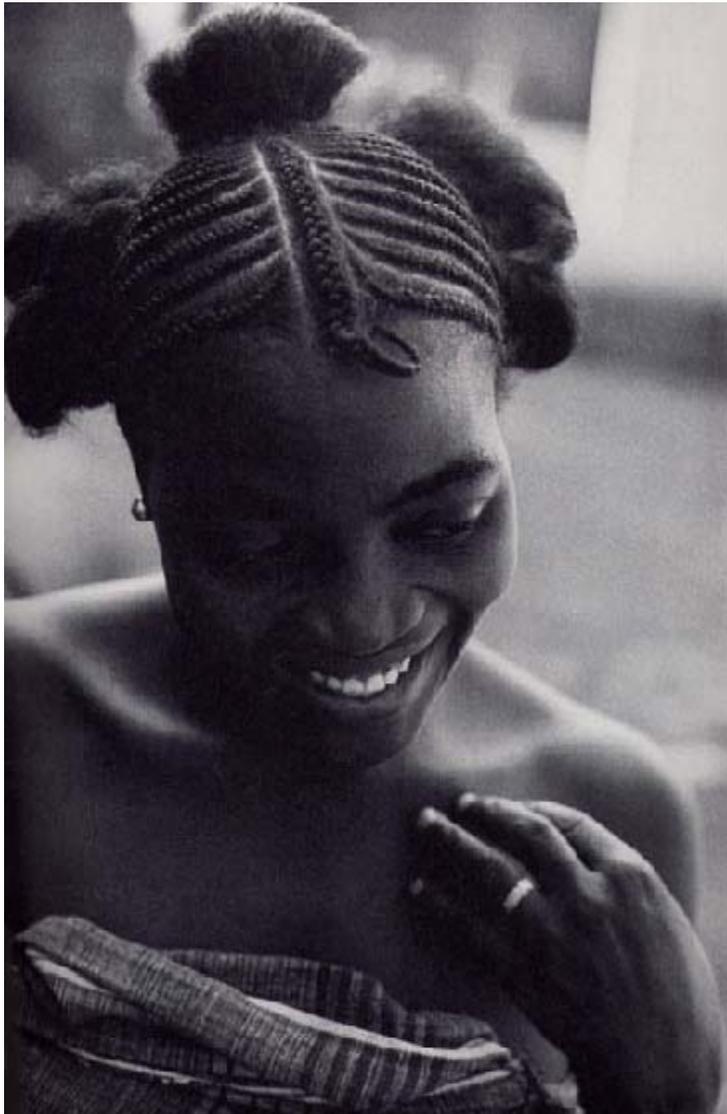
Fractals

Are recursive: they repeat based on what was there before.





African Corn Row Braids Are Fractals



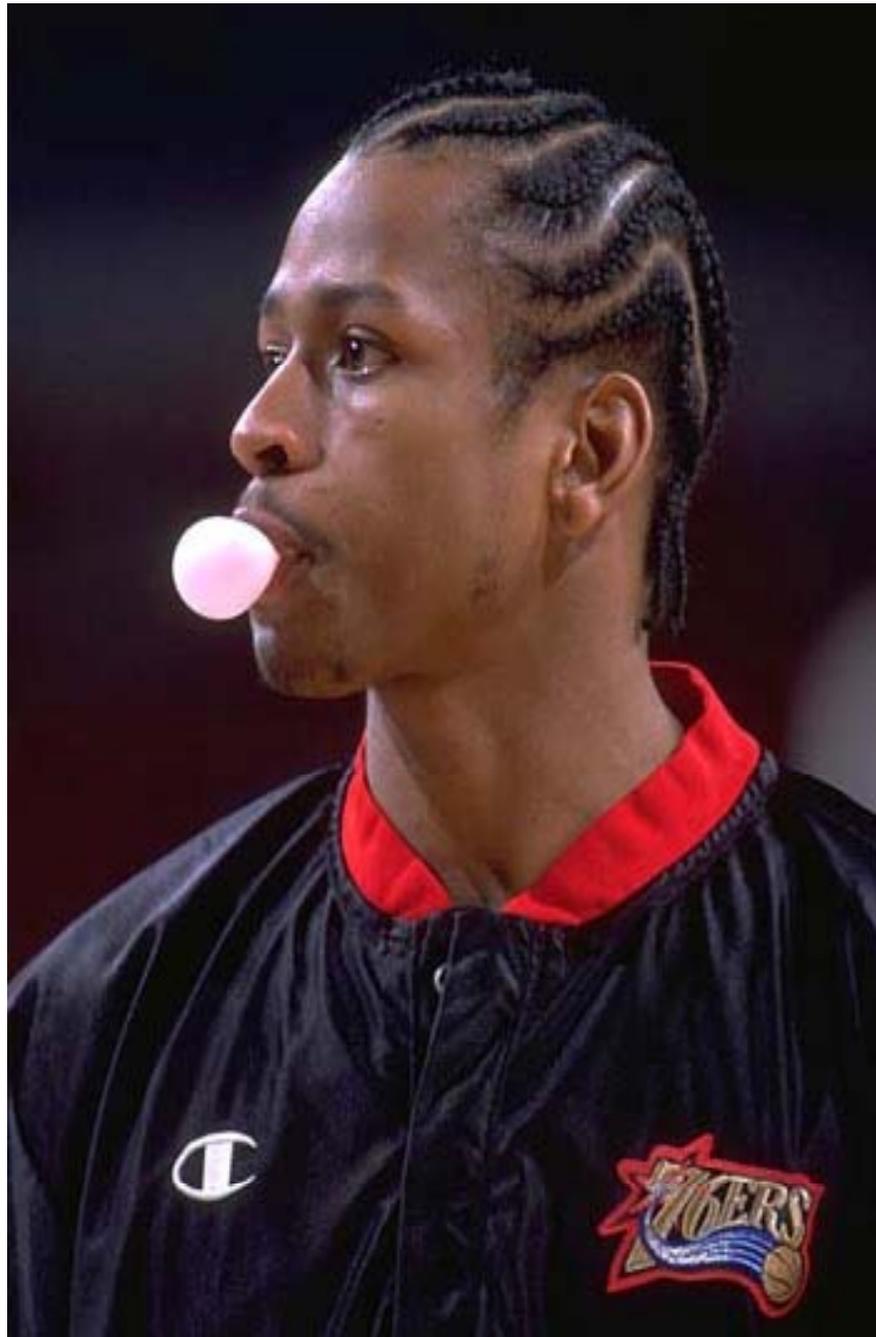
http://www.ccd.rpi.edu/Eglash/csdt/african/CORNROW_CURVES/culture/african.origins.2.htm



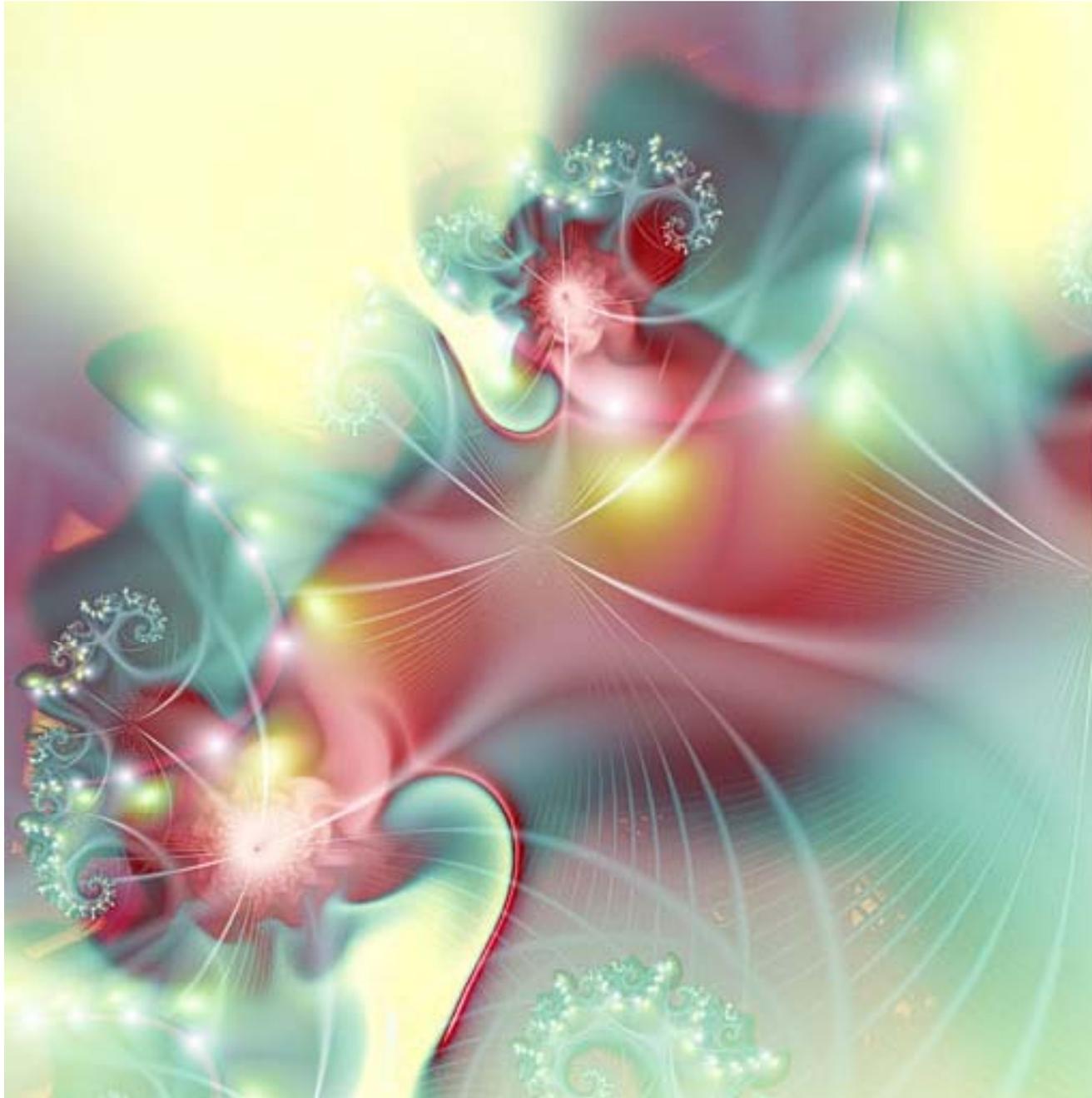
“Slaves who worked inside the plantation...often wore tight braids, plaits, and cornrows (made by sectioning the hair and braiding it flat to the scalp). (Byrd and Tharps 2001 pp.13-14).”

Frances Harper
1892

http://www.ccd.rpi.edu/Eglash/csdt/african/CORNROW_CURVES/culture/middle.passage.1.htm

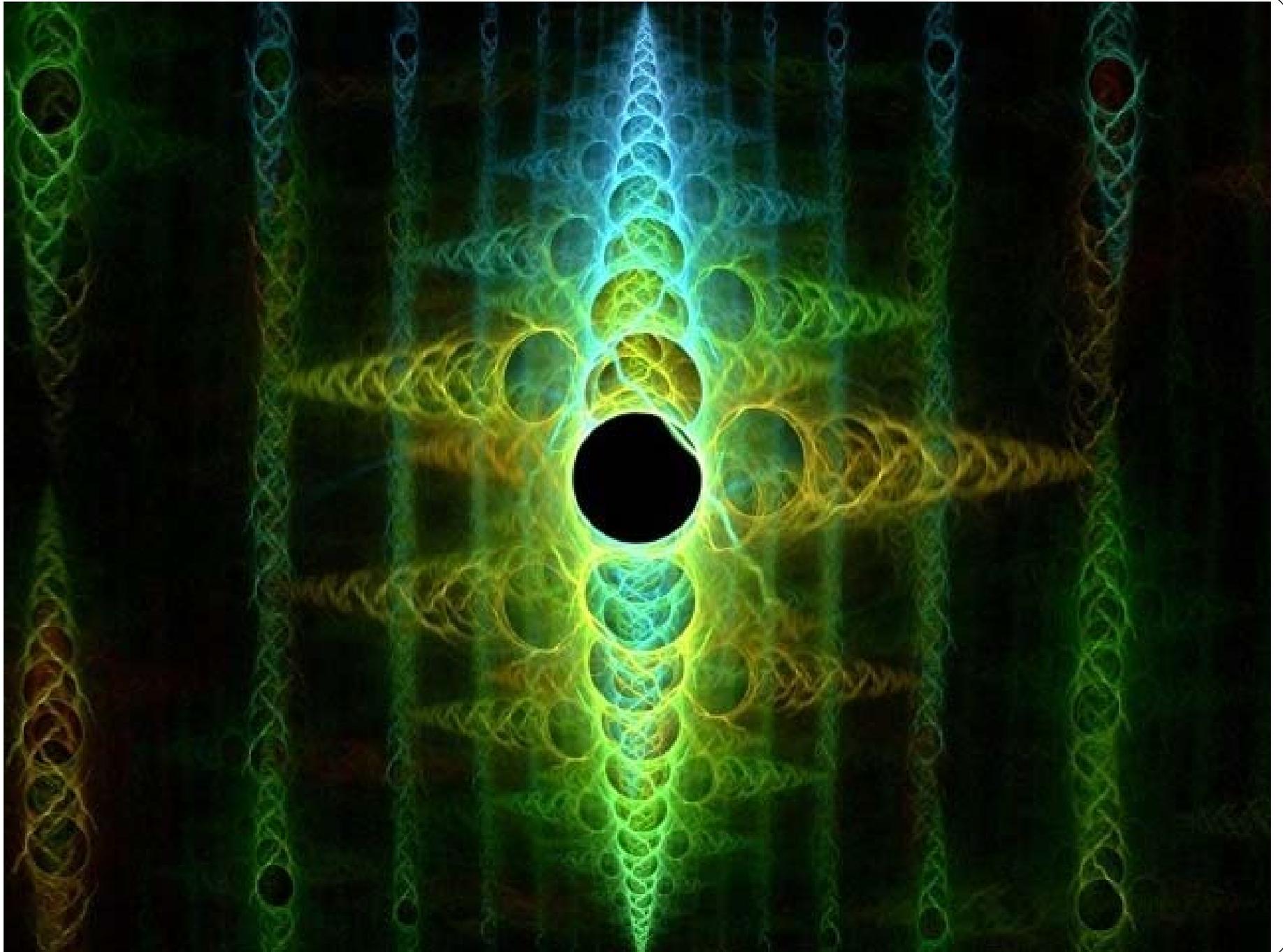


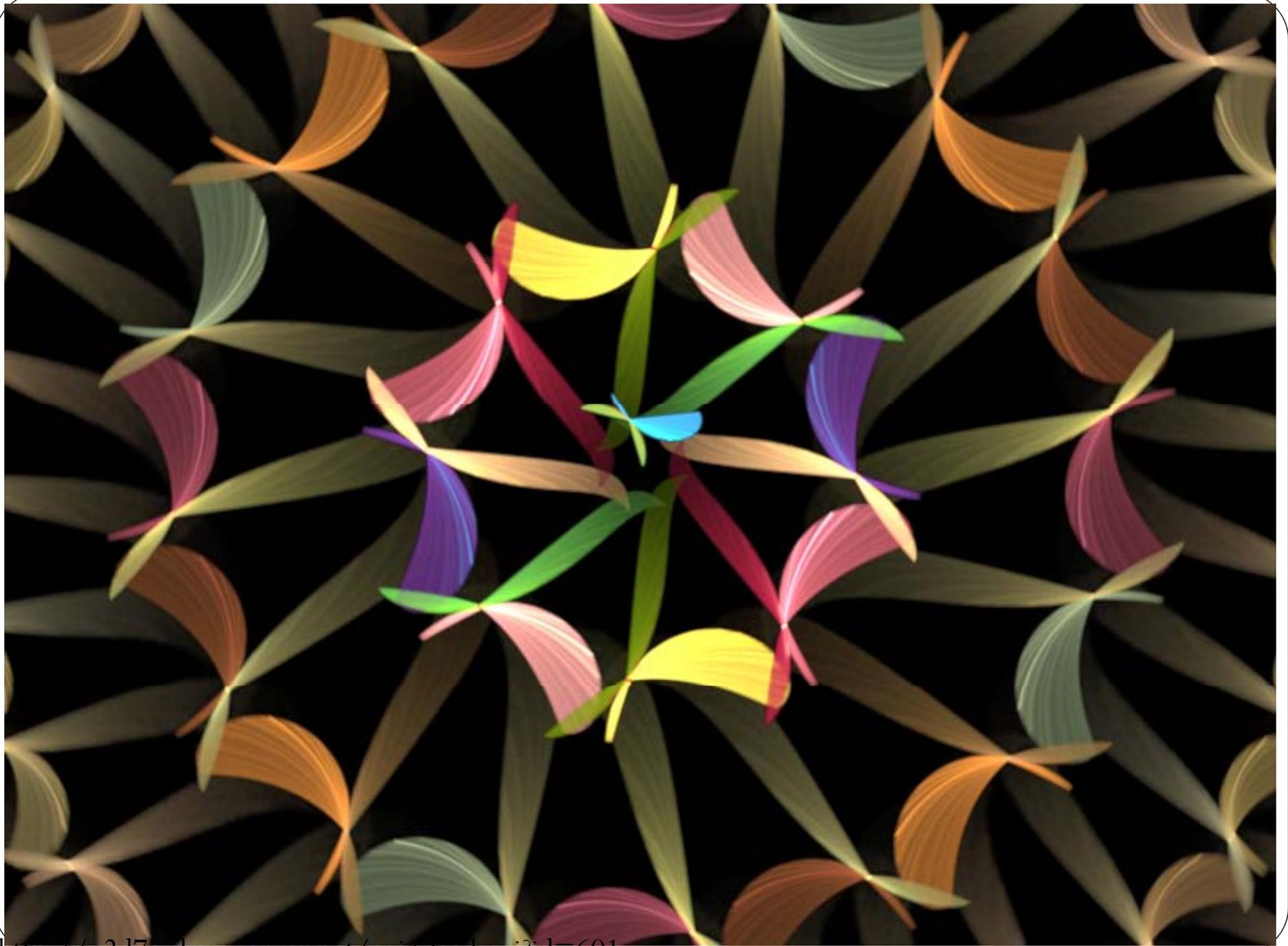
http://www.ccd.rpi.edu/Eglash/csdt/african/CORNRROW_CURVES/culture/hip.hop.2.htm



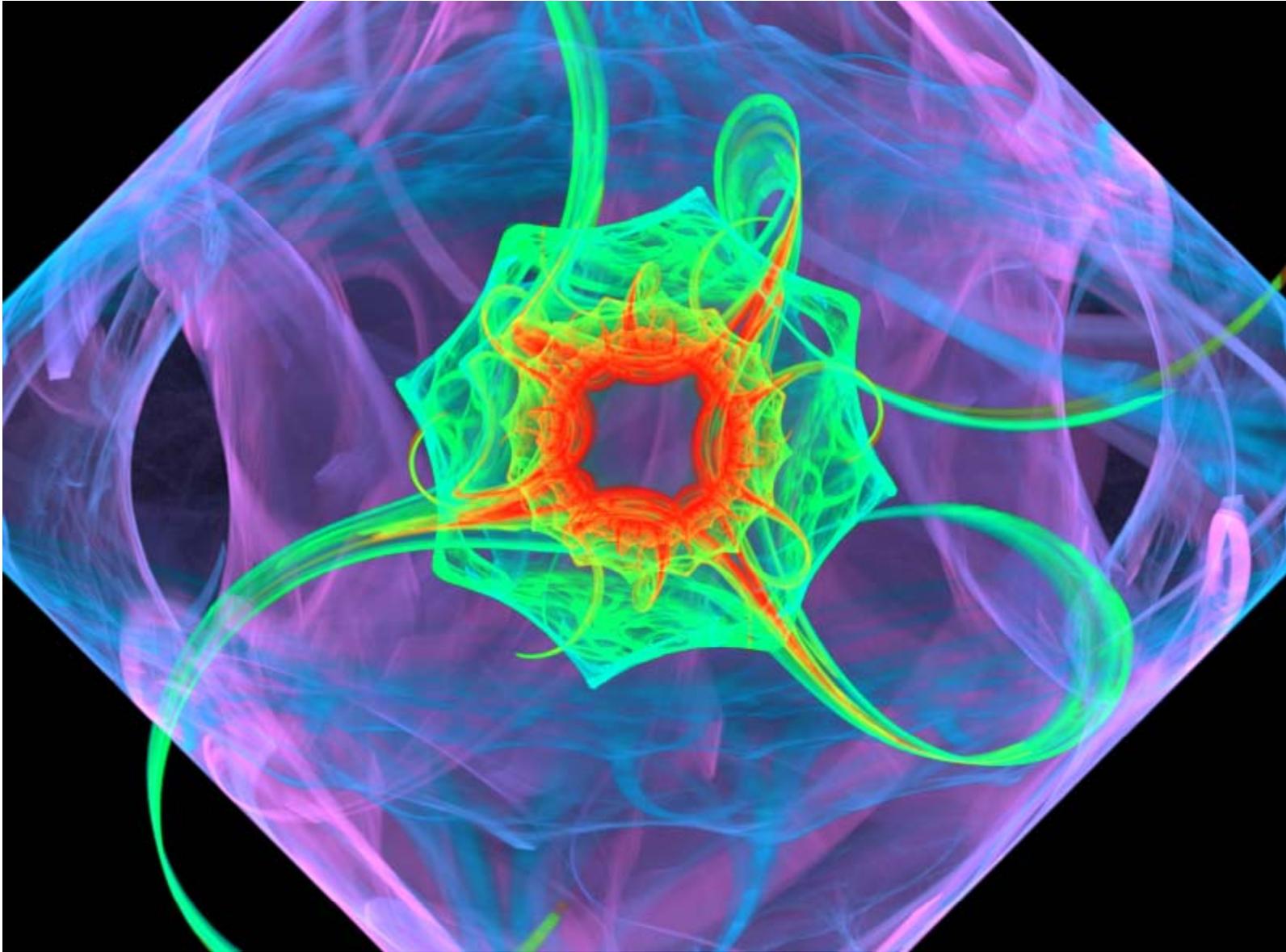
Artist- modified fractals

<http://www.fractaldementia.com/199909/vaguely.html>

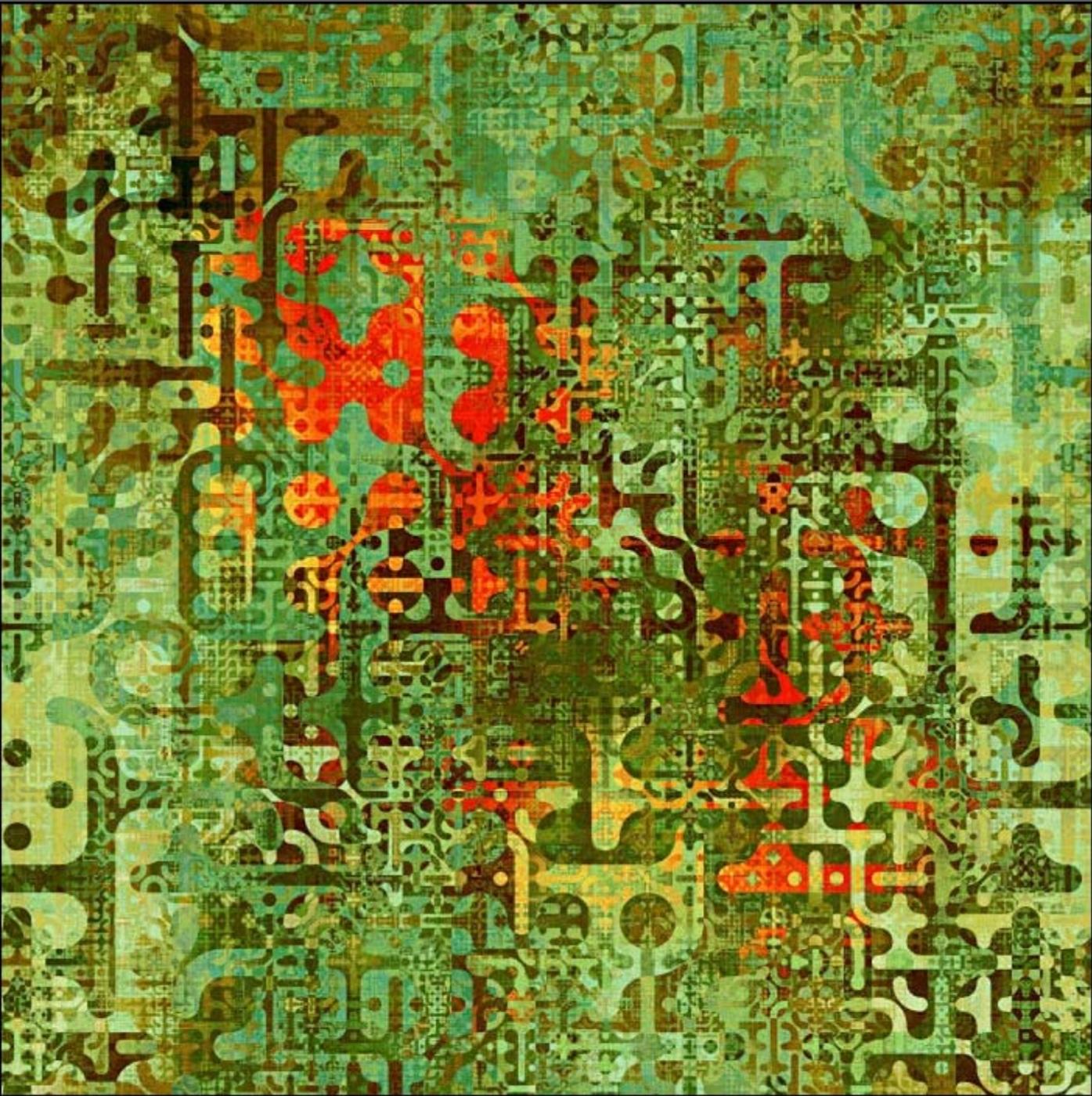


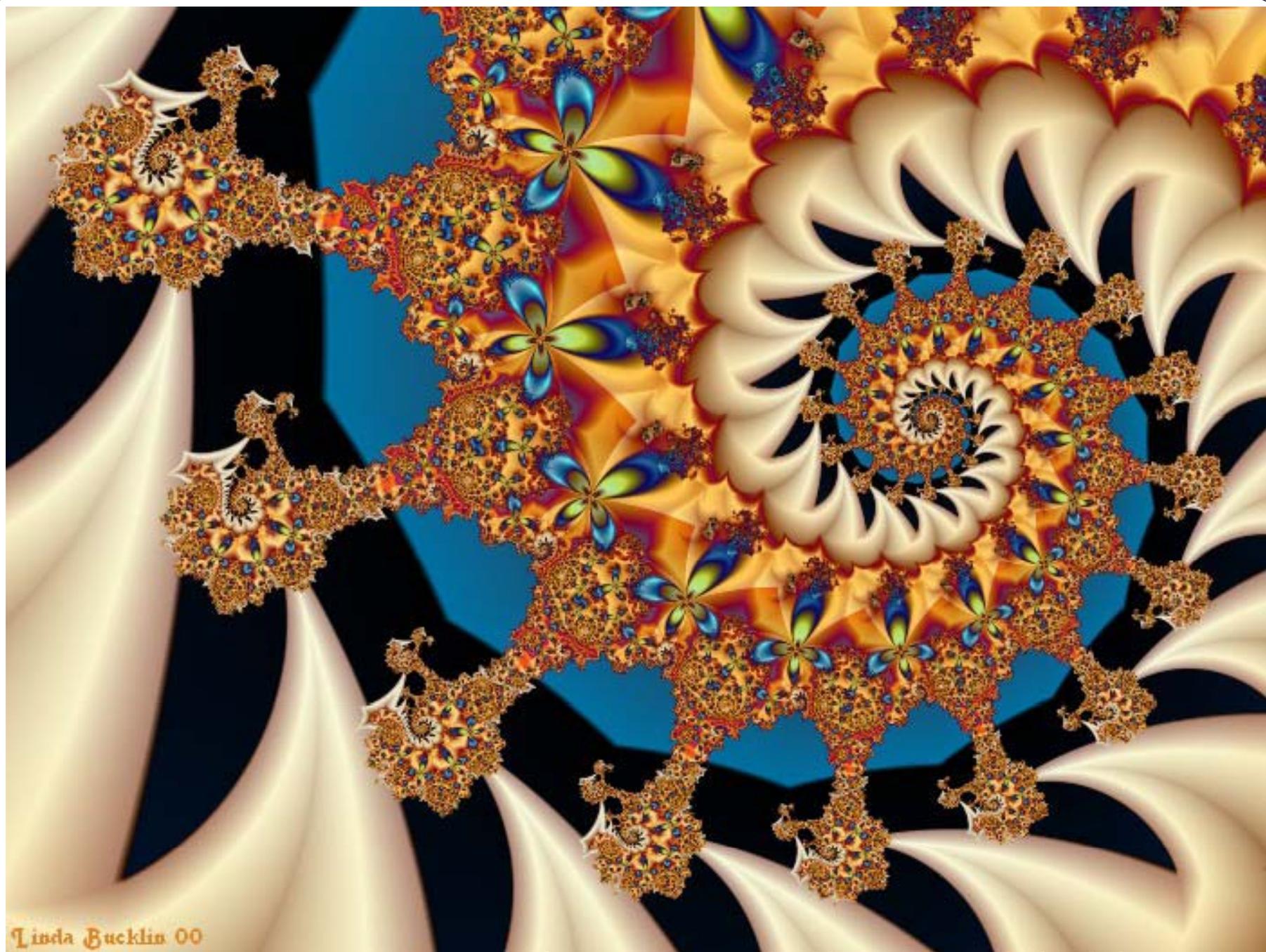


<http://v2d7c.sheepserver.net/cgi/dead.cgi?id=601>



<http://v2d7c.sheepserver.net/cgi/node?id=4641>





Linda Bucklin 00

<http://www.lindabucklin.com/fractals/html/forewas.html>



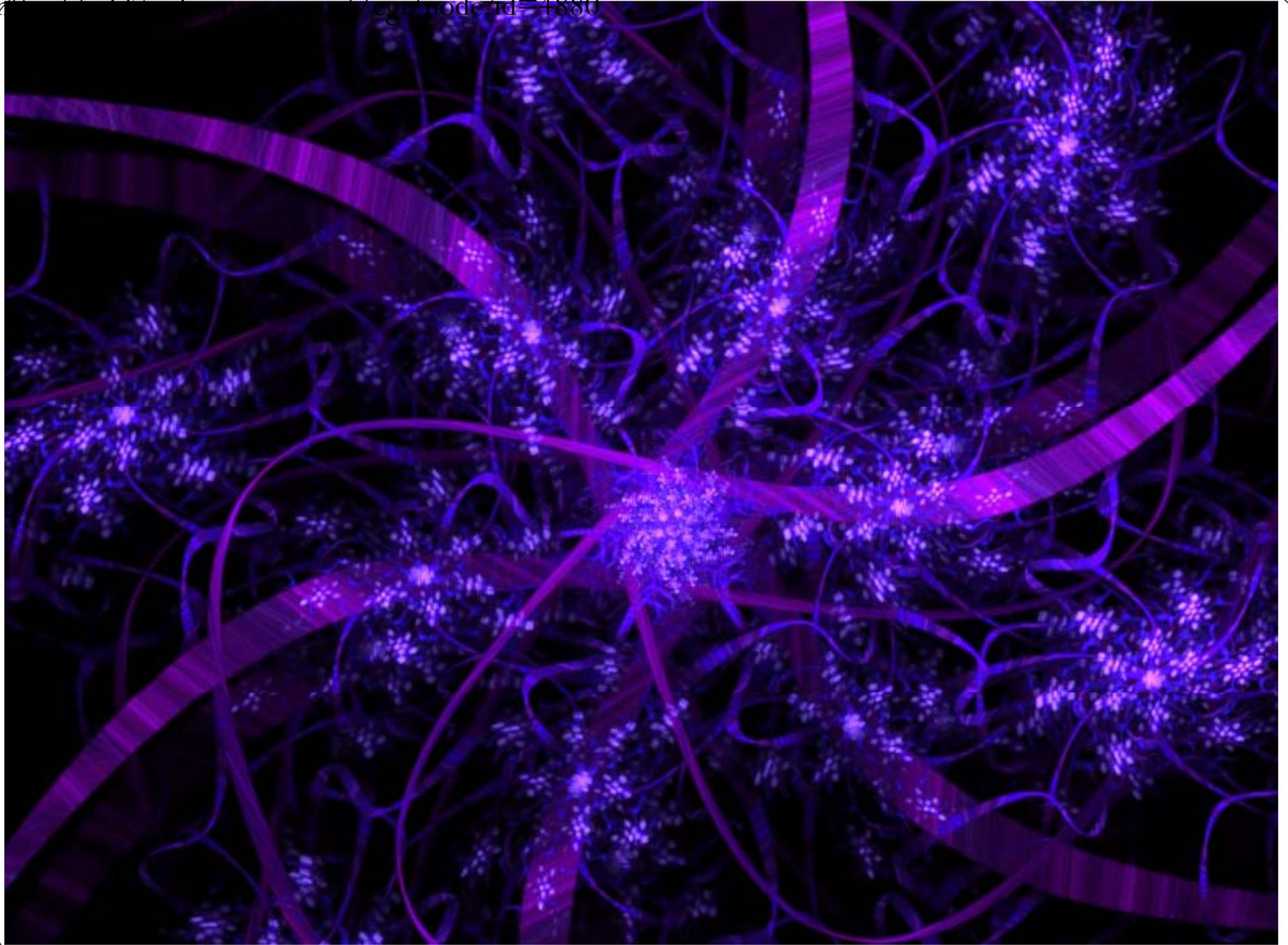
FLY 2008

http://www.arcanefractals.com/fullpagepic_the_spirit/enlightenment.shtml



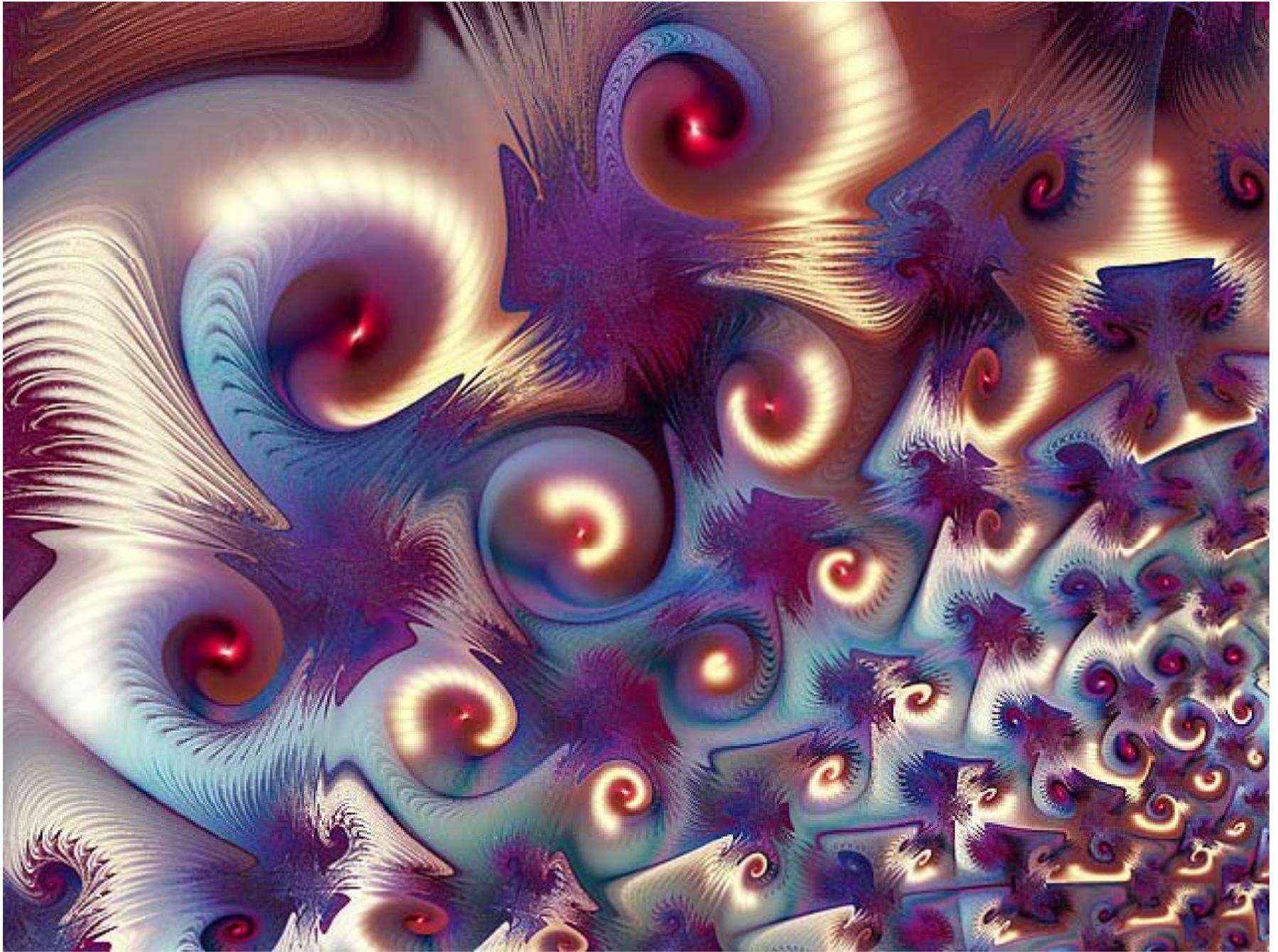
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<http://www.kps.com/egi/node?id=4880>



<http://www.fractaldementia.com/200007/20000715.html>







<http://v2d7c.sheepserver.net/cgi/dead.cgi?id=2081>

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