

Mathematics & Art

By various mathematical artists

Assembled by Carolyn Yackel

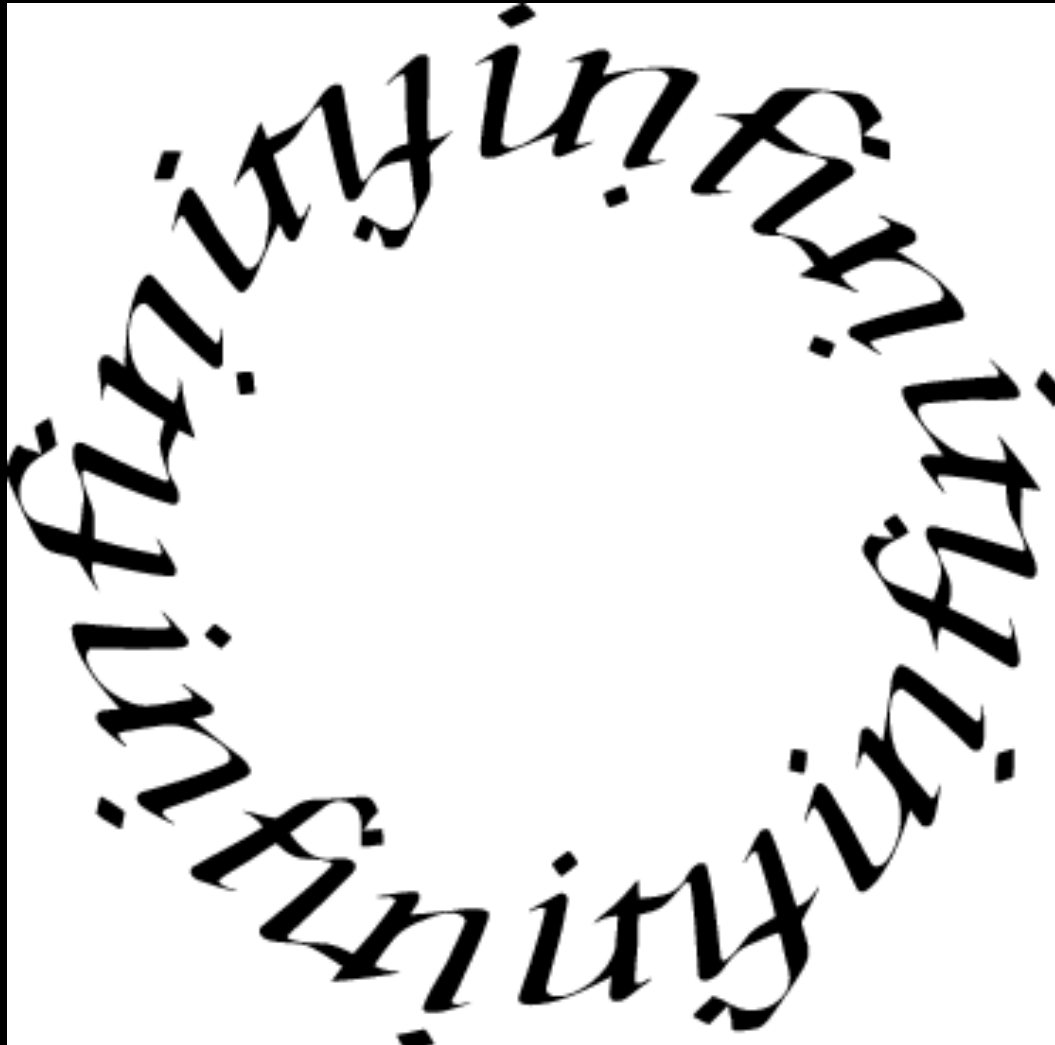
Mercer University



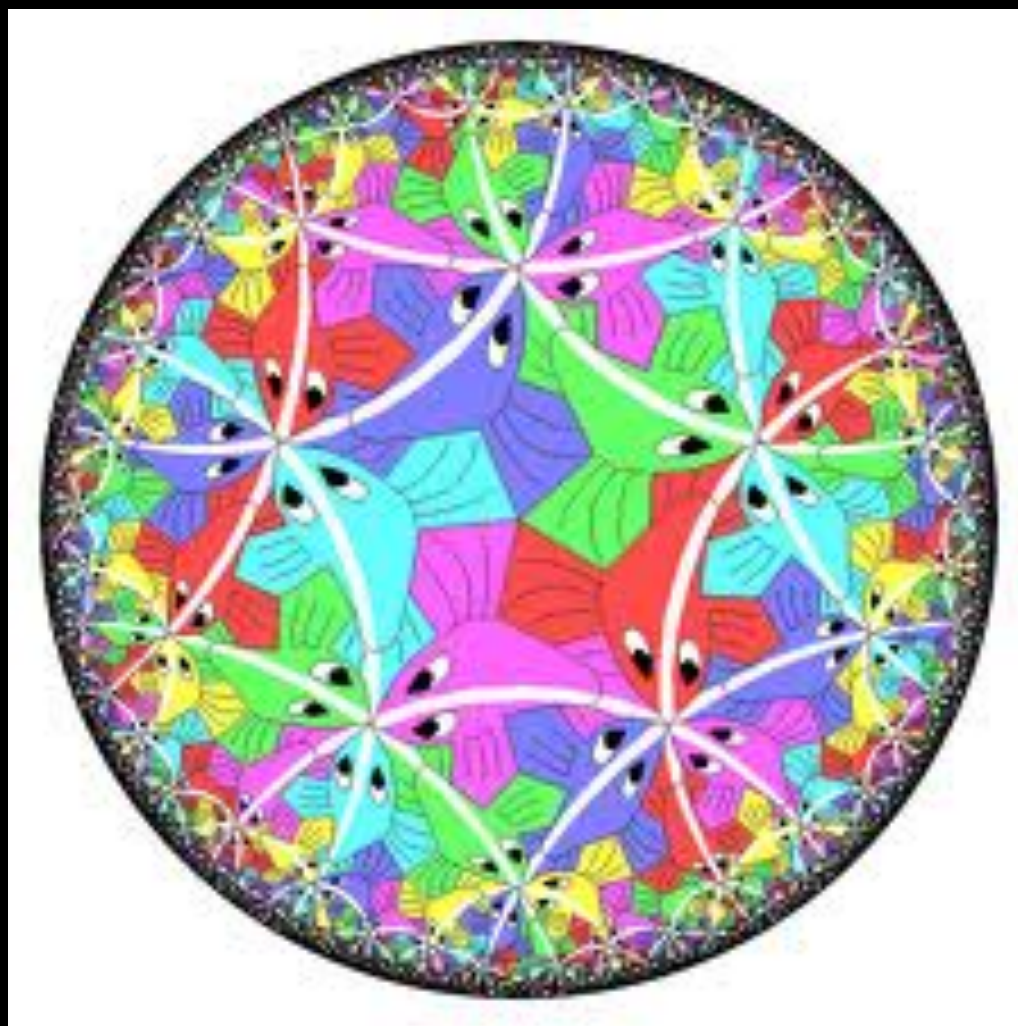
Scott Kim: ambigram inversion



Chris Palmer: Flower Tower Origami Fold



Scott Kim: Infinity Circle



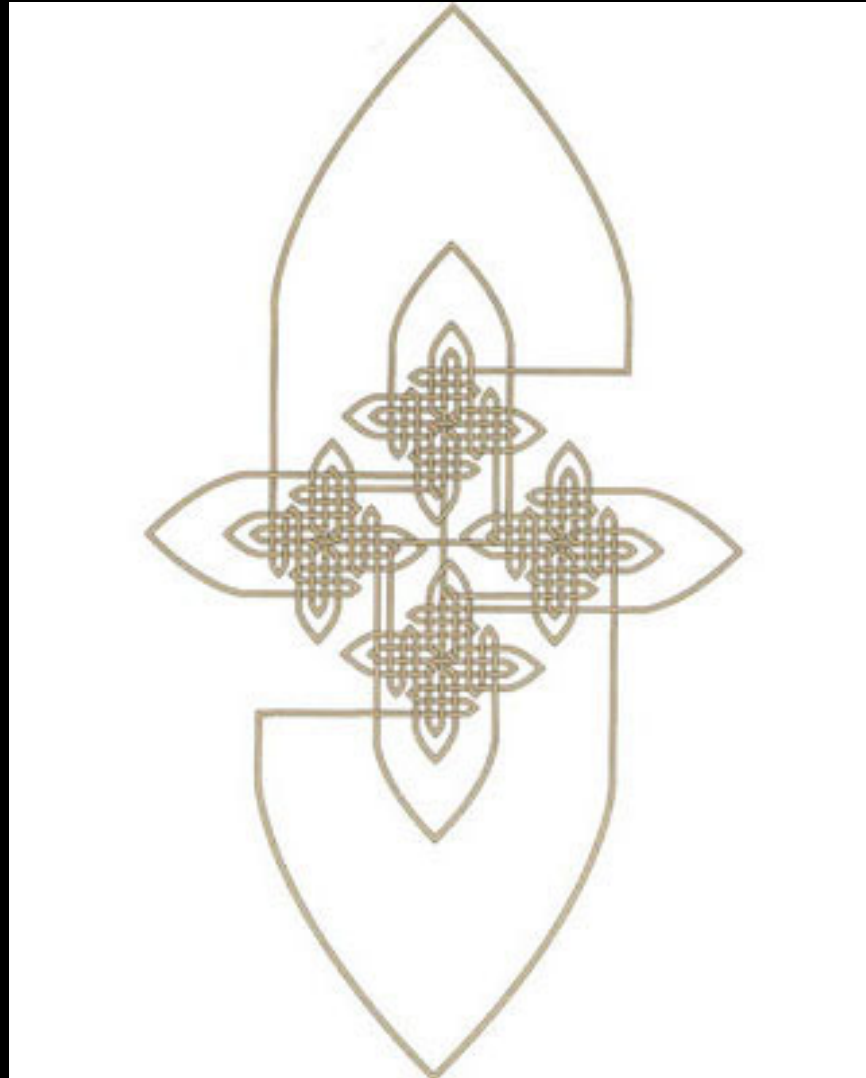
Doug Dunham—Circle Limit III type pattern



Bob Bosch--Untitled



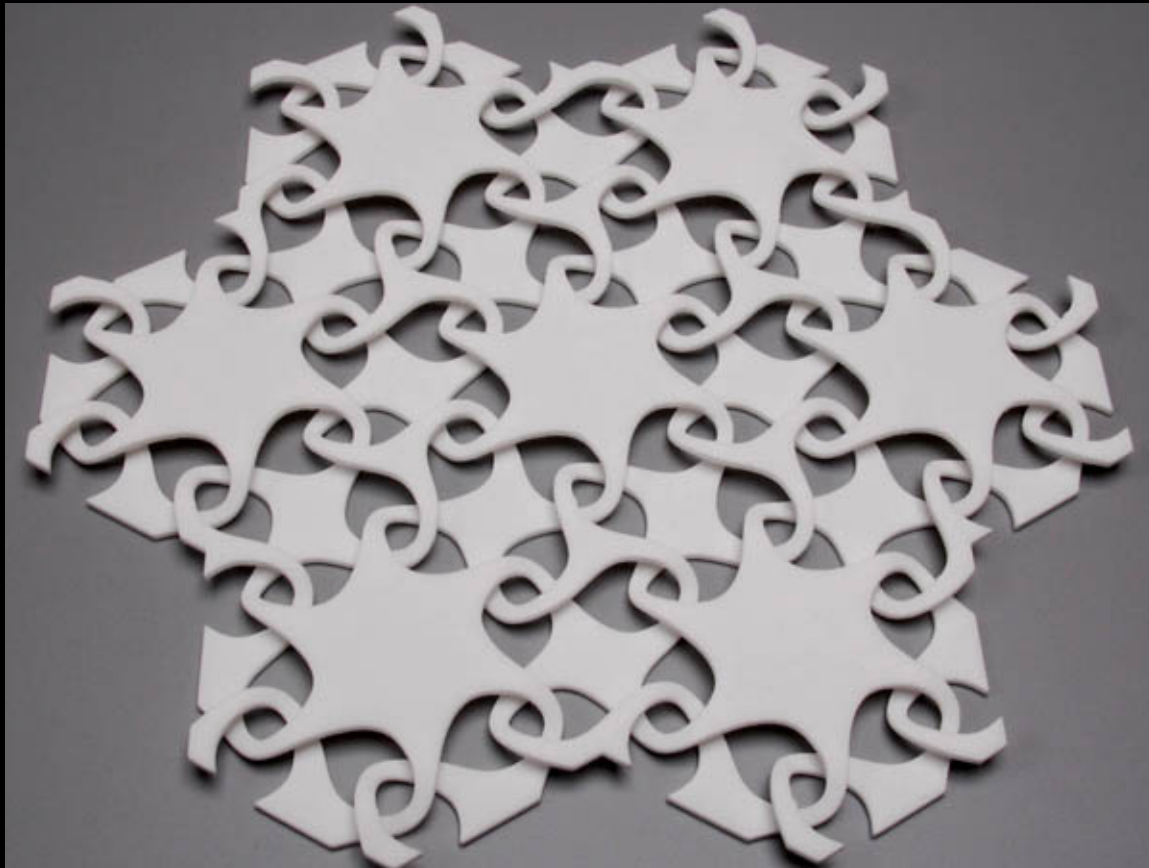
Rinus Roelof—Knot



Robert Fathauer—Twice Iterated Knot No. 1



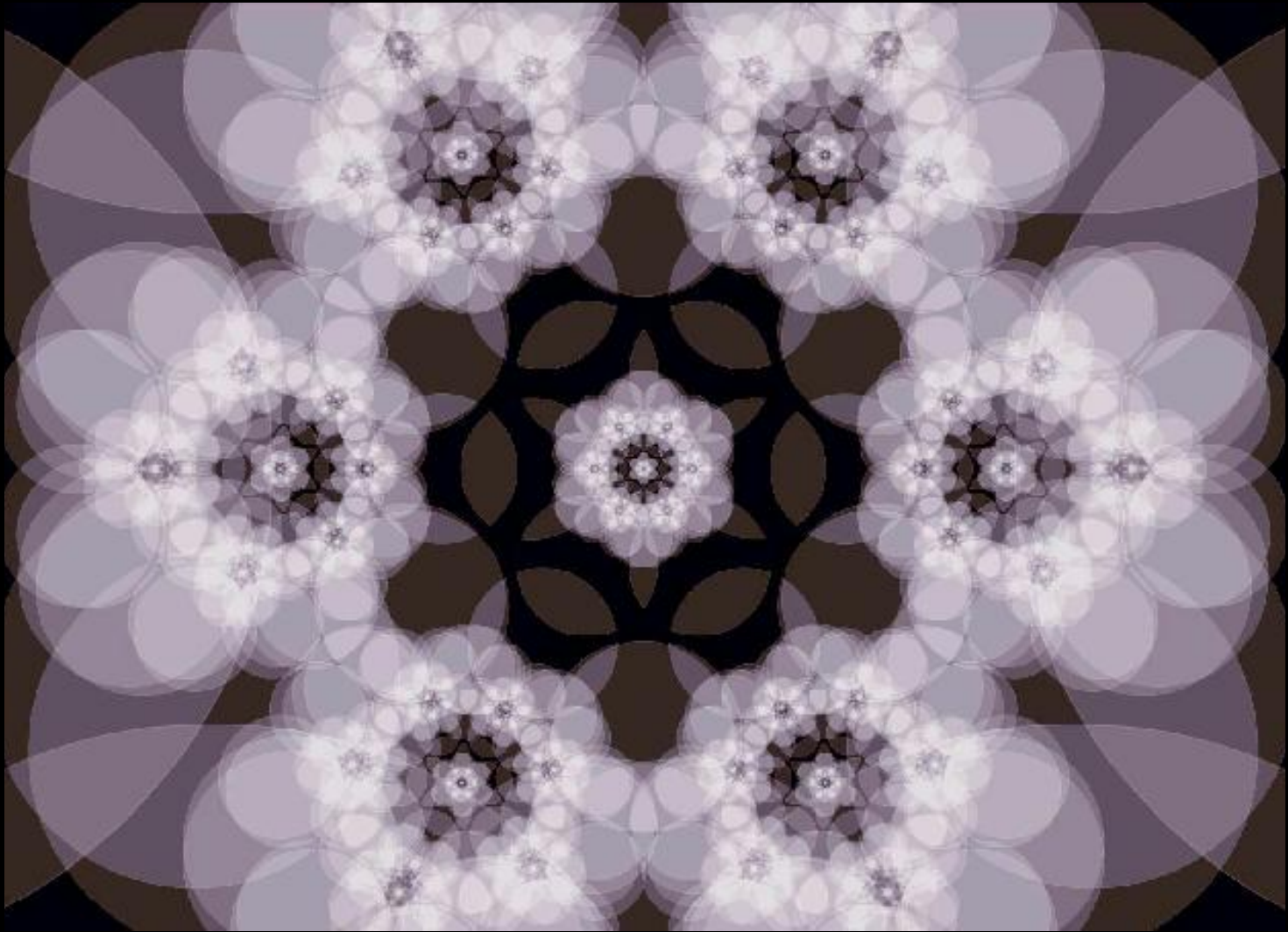
Rinus Roelofs—Single surface



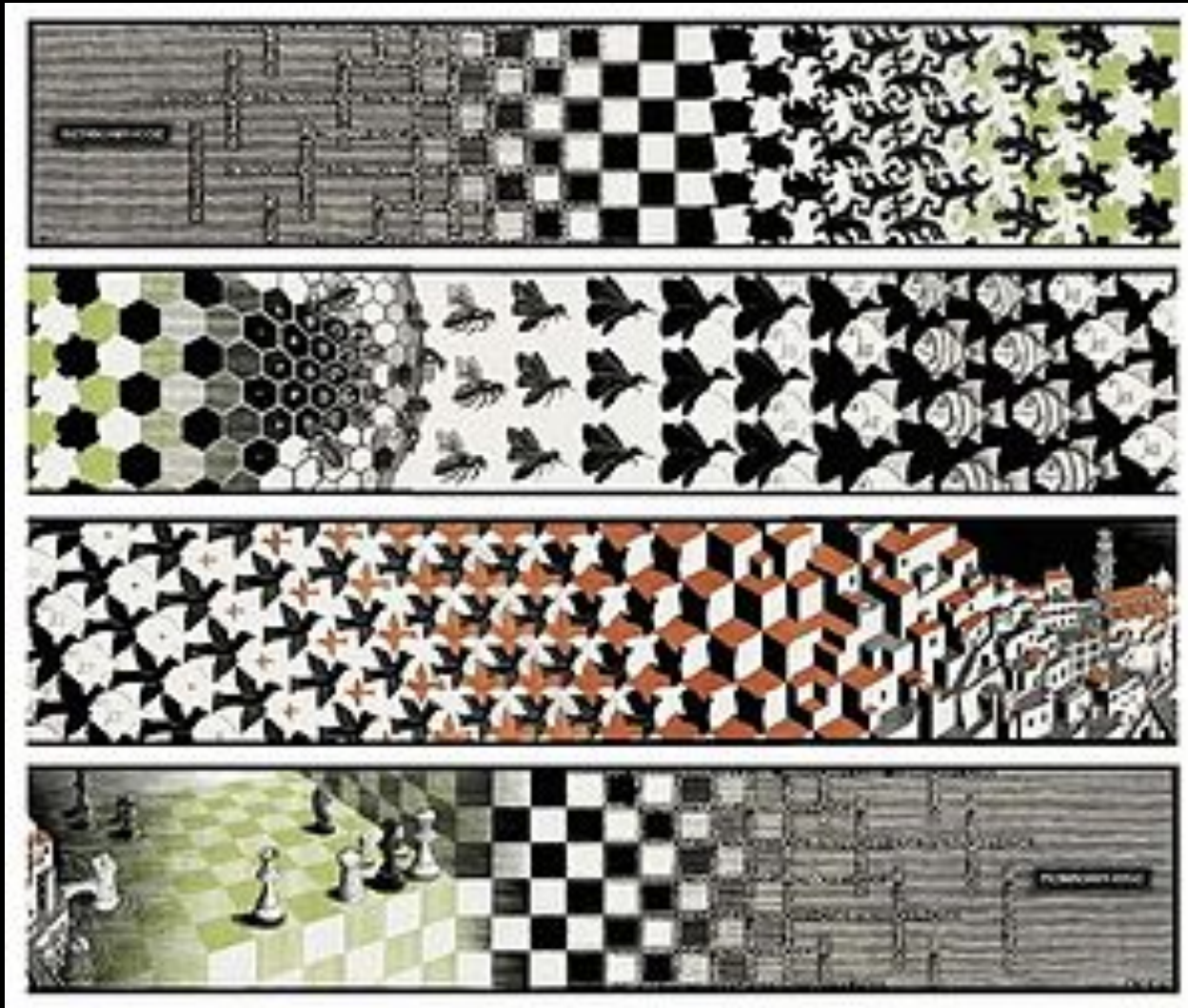
Rinus Roelofs—Tapestry



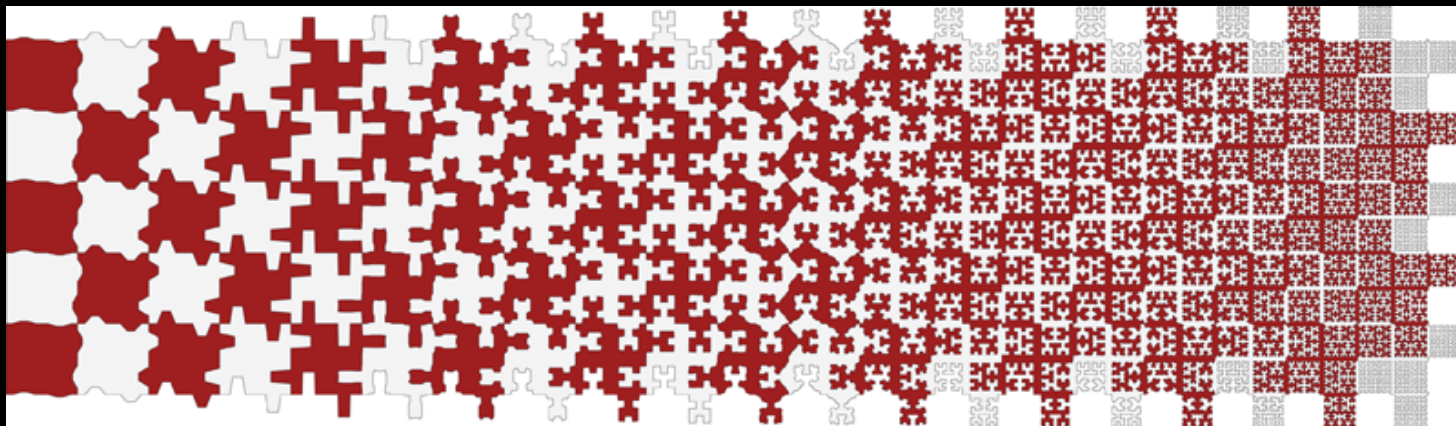
Rinus Roelofs—3D tapestry



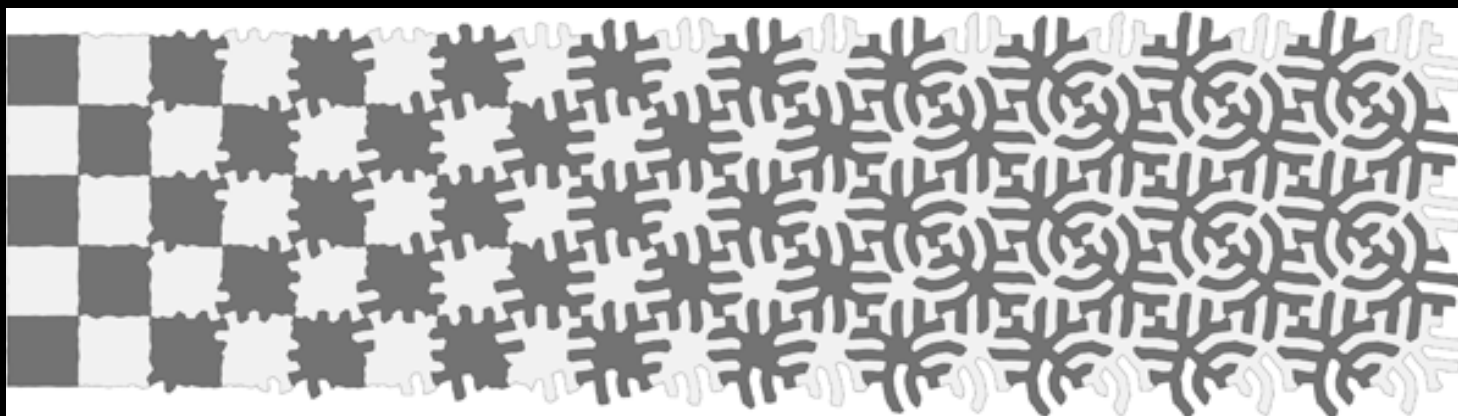
Anne Burns—Produced by a subgroup of Mobius Transformations



M.C.Escher: Metamorphosis



Craig Kaplan—Parquet Deformations



Craig Kaplan, top; Florence Turnour, beads, bottom—Parquet Deformations



Akio Hizume: Fibonacci Tower



Akio Hizume: Fibonacci Tower



Helaman Ferguson—Fibonacci Box II



Anamorphosis onto a sphere (From Make mag., flickr fdecomite)



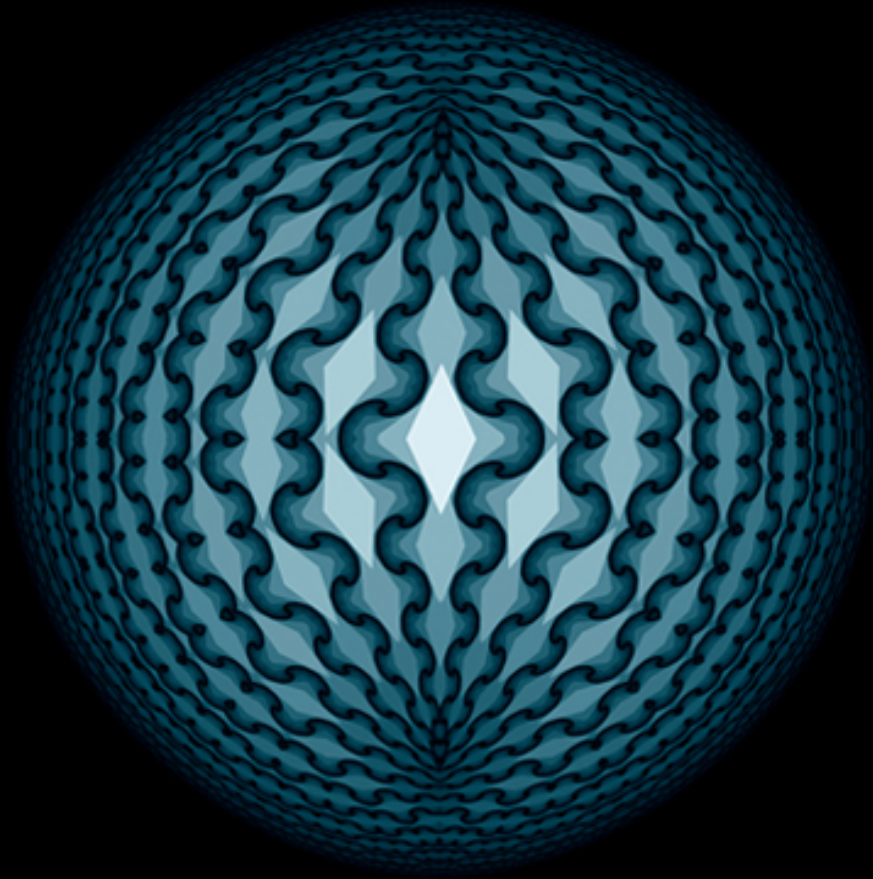
Anamorphosis onto a cylinder



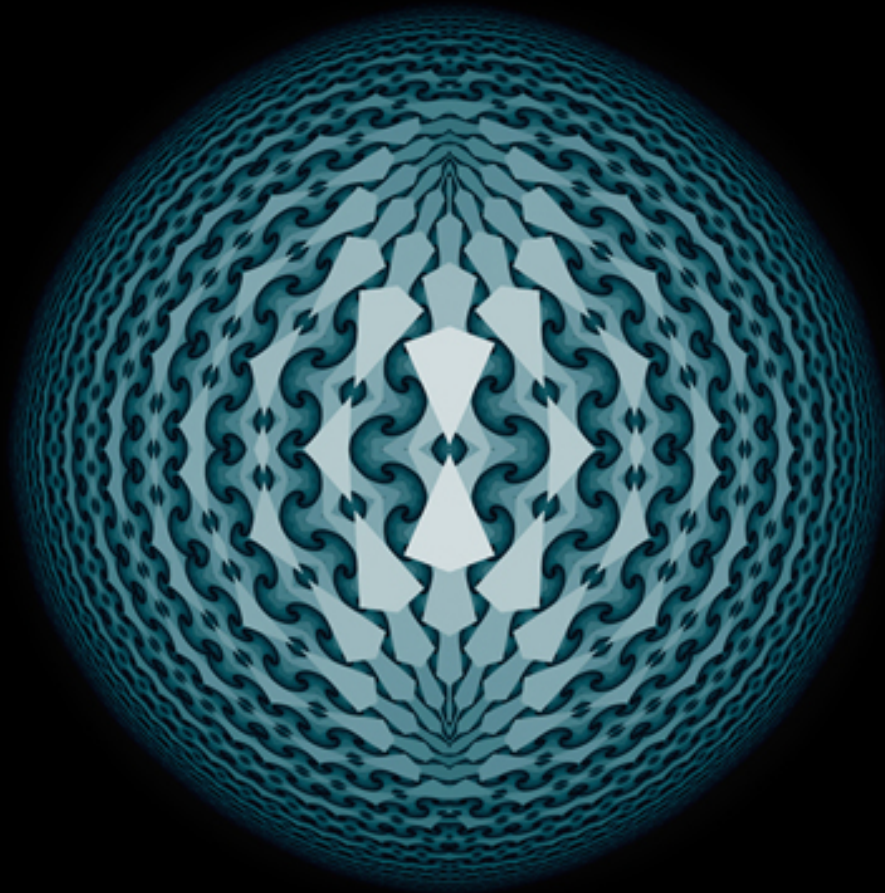
Tom Hull



Daina Taimina—Crocheted Hyperbolic Surface



Paul Prudence: Talysis II



Paul Prudence: Talysis II another view



Daina Taimina—Crocheted Hyperbolic Surface



Helaman Ferguson: Figure Eight Knot Complement



George Hart photo: Cutting a Bagel into two linked halves



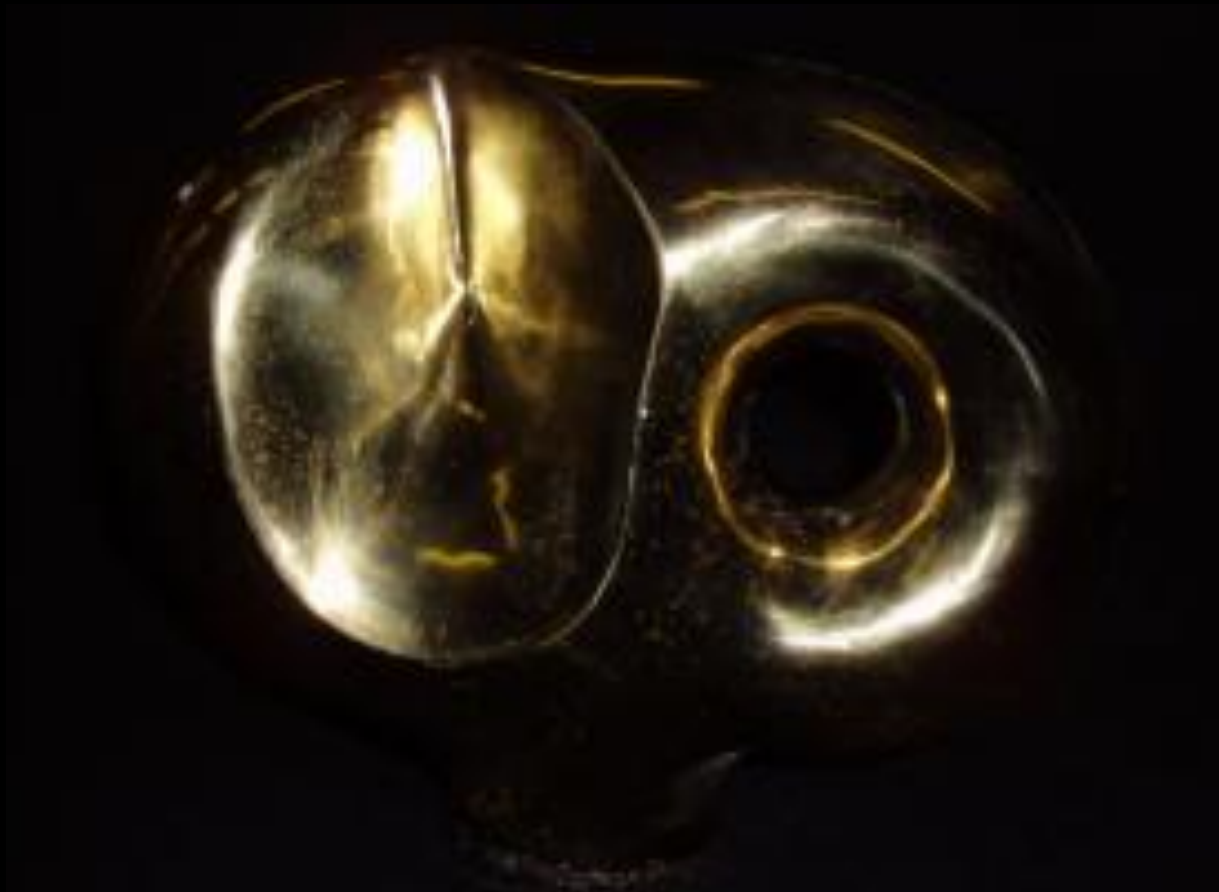
Helaman Ferguson: Incised Torus Wild Sphere



Carlos Seguin: 48 Bird Tetras



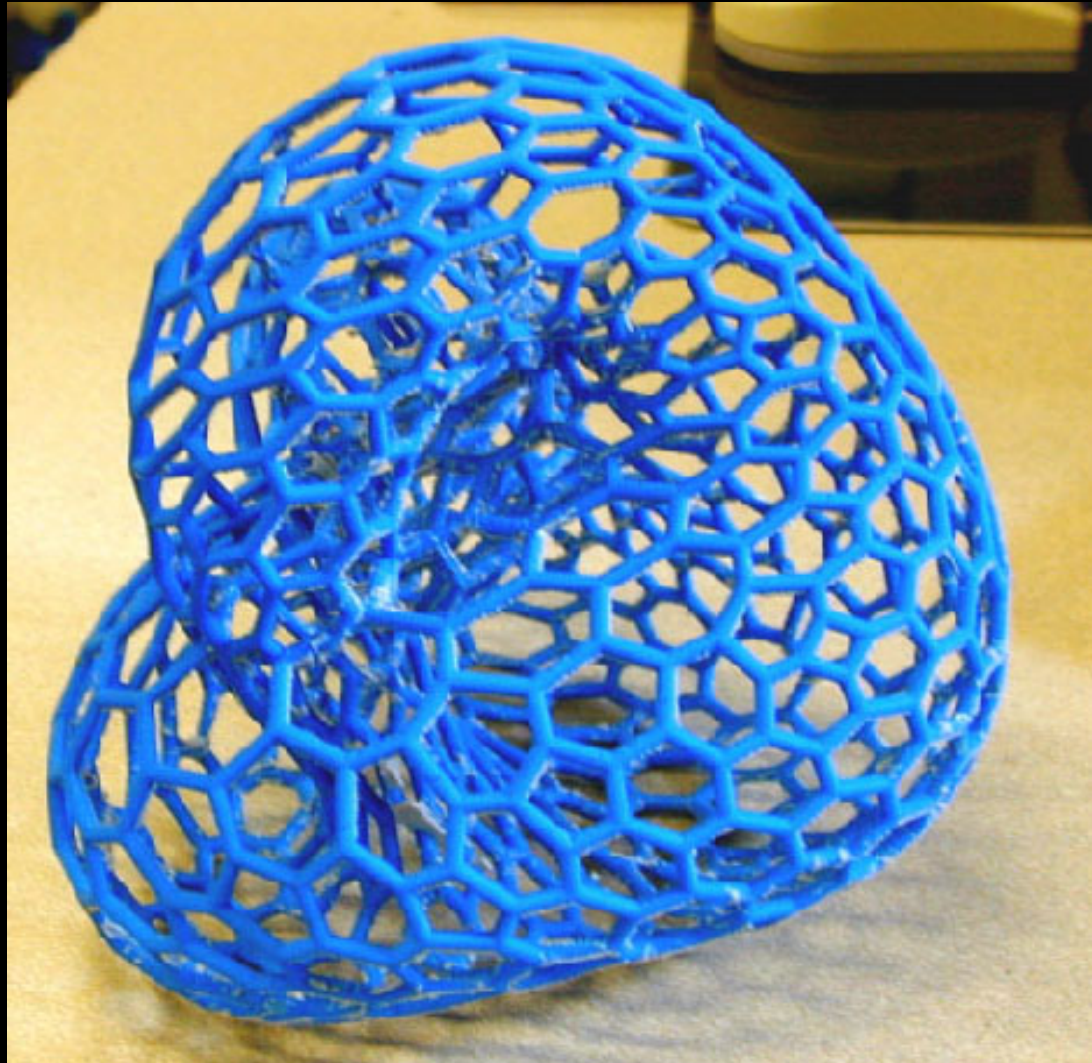
Bjarne Jespersen—Dual Plane Toroid



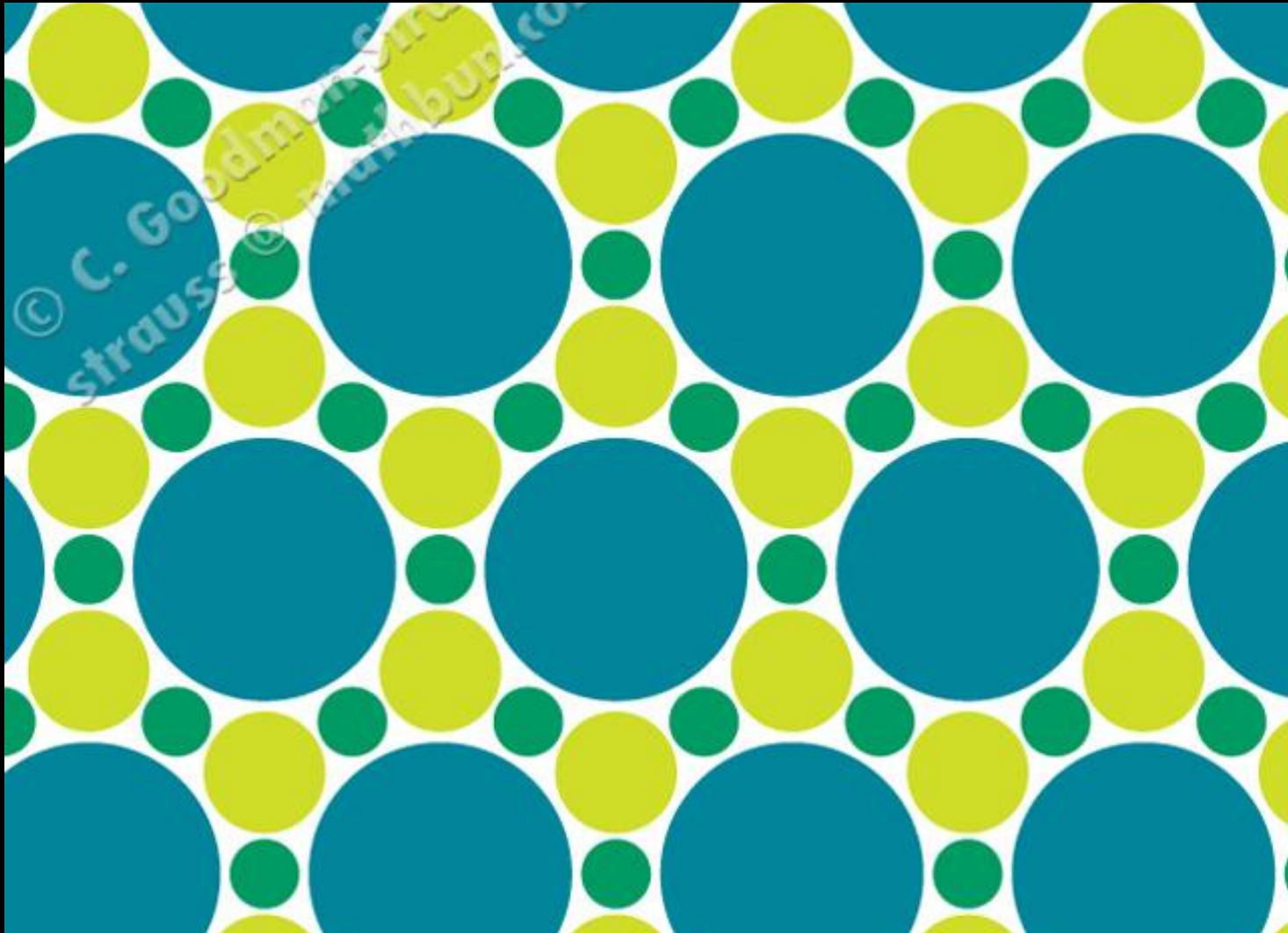
Helaman Ferguson: Torus and Crosscap



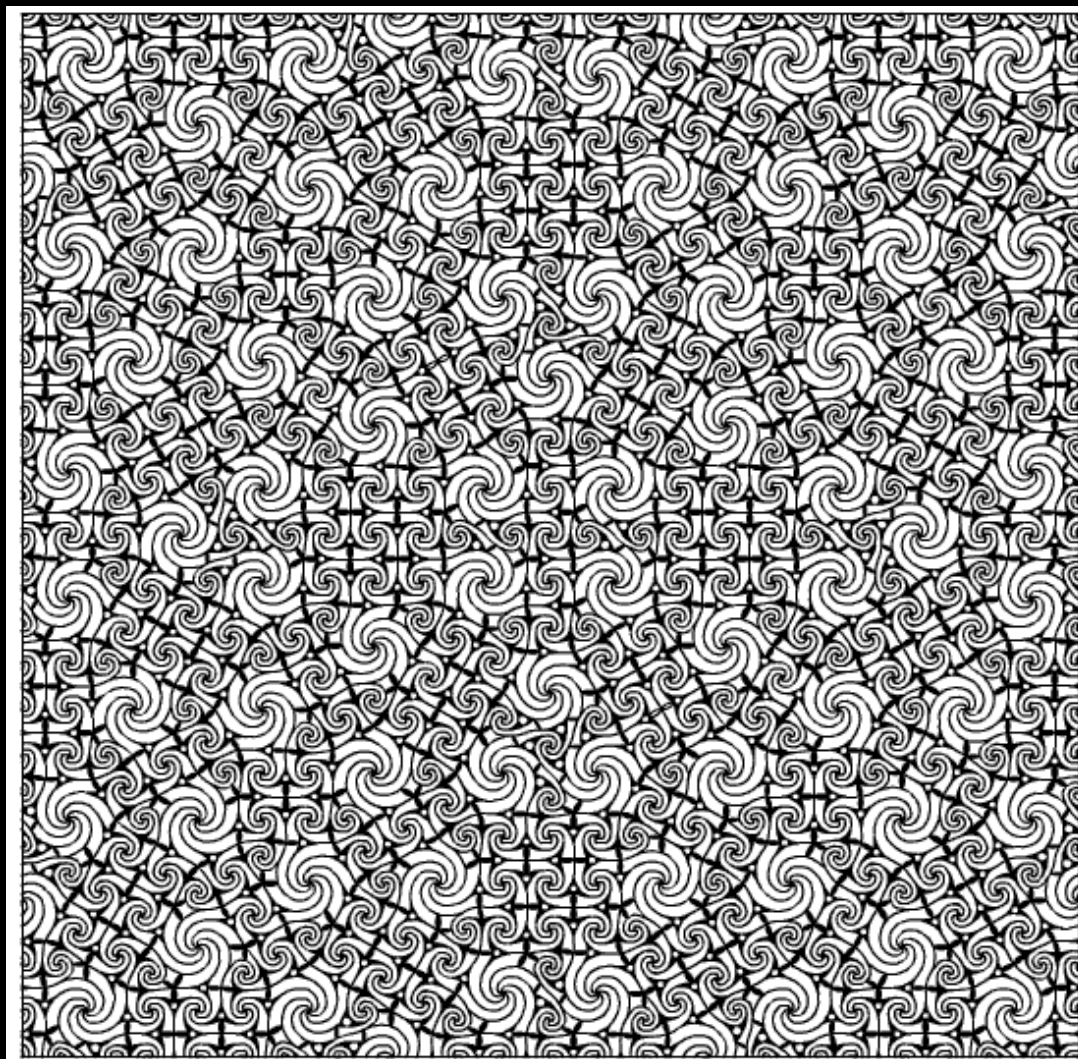
Emily Peters: Knitted Cross-Cap



Carlo Seguin: Boy's Surface



Chaim Goodman-Strauss--*632 tessellation



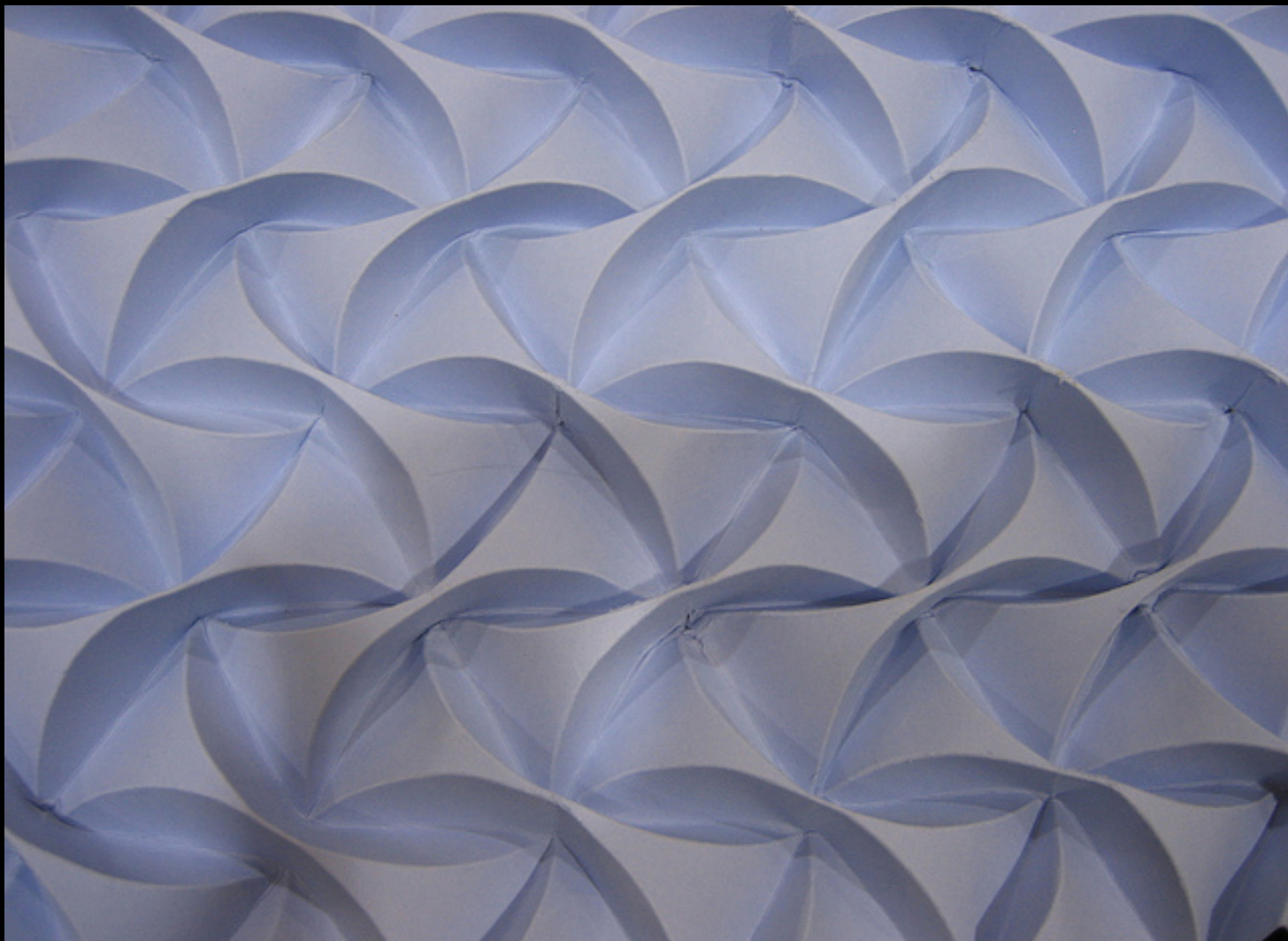
Chris Palmer



Jeannine Mosley: Origami Tessellation



Chaim Goodman-Strauss—632 tessellation



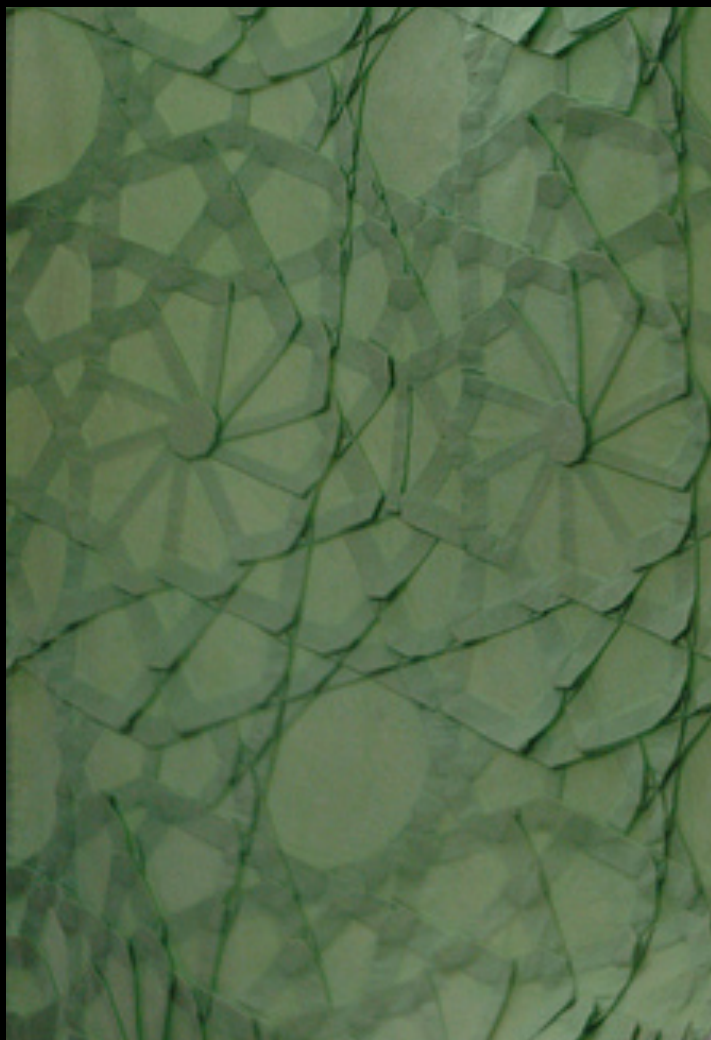
Jeanine Mosley: Herringbone Origami Tessellation



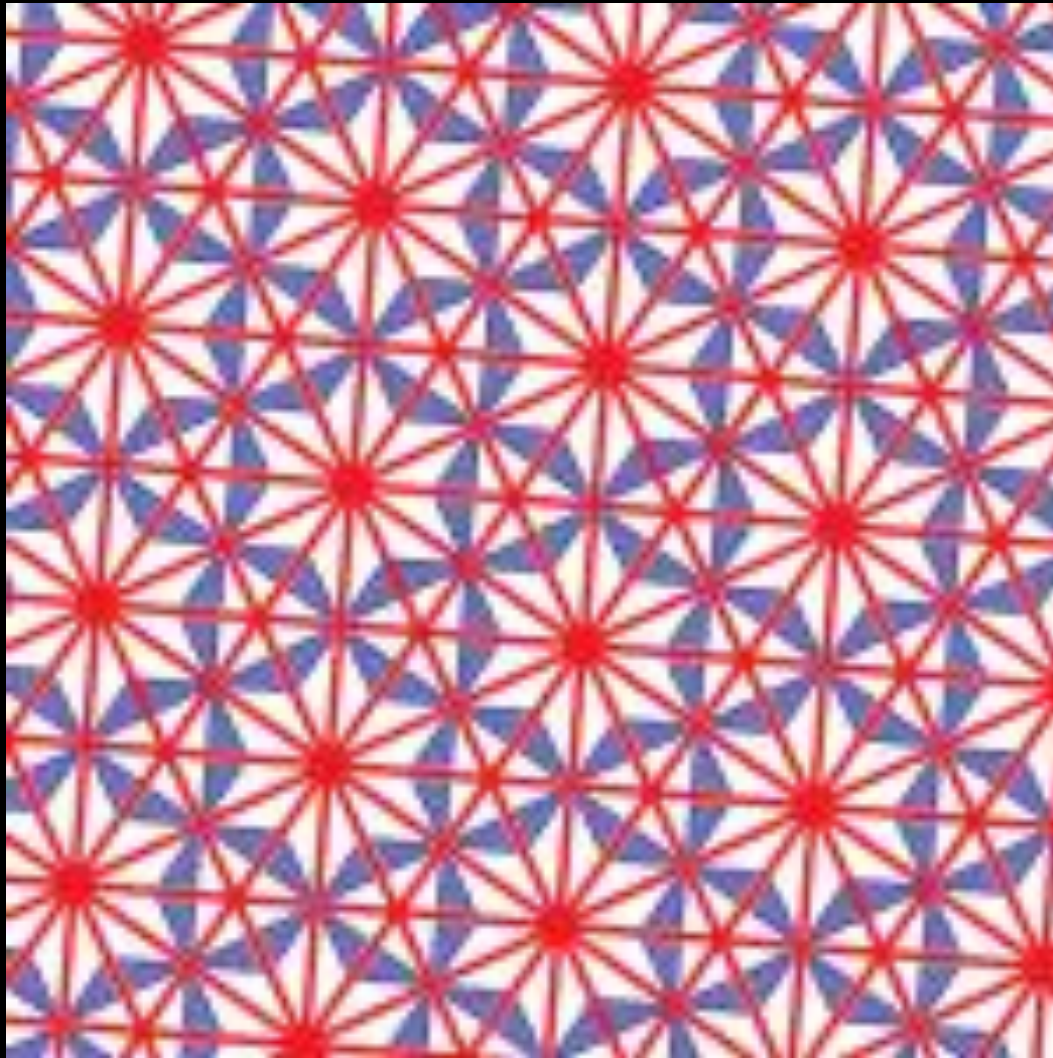
Robert Fathauer: Seahorses and Eels



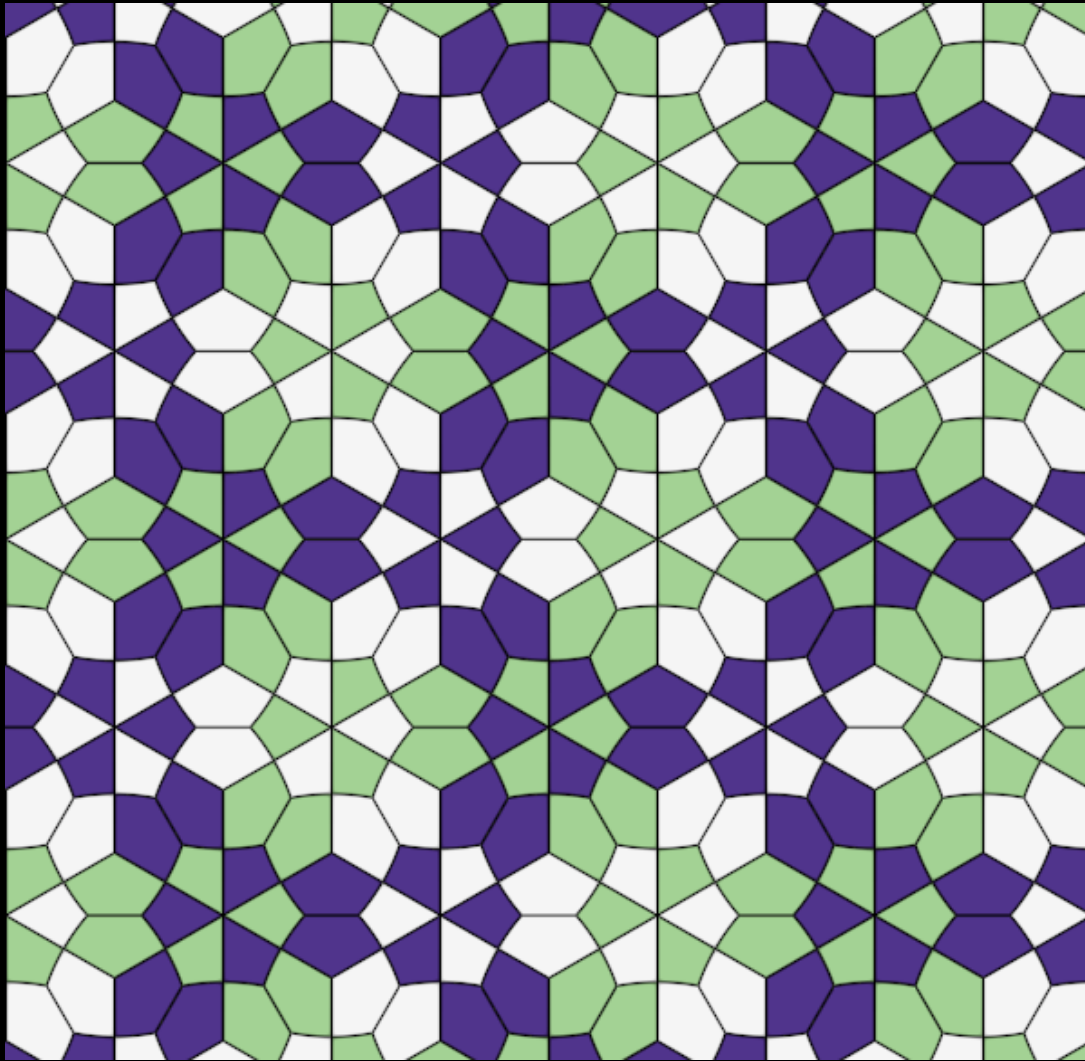
Irena Swanson—quilted semi-regular tessellations



Chris Palmer—Shadowfold



***632 Tessellation**

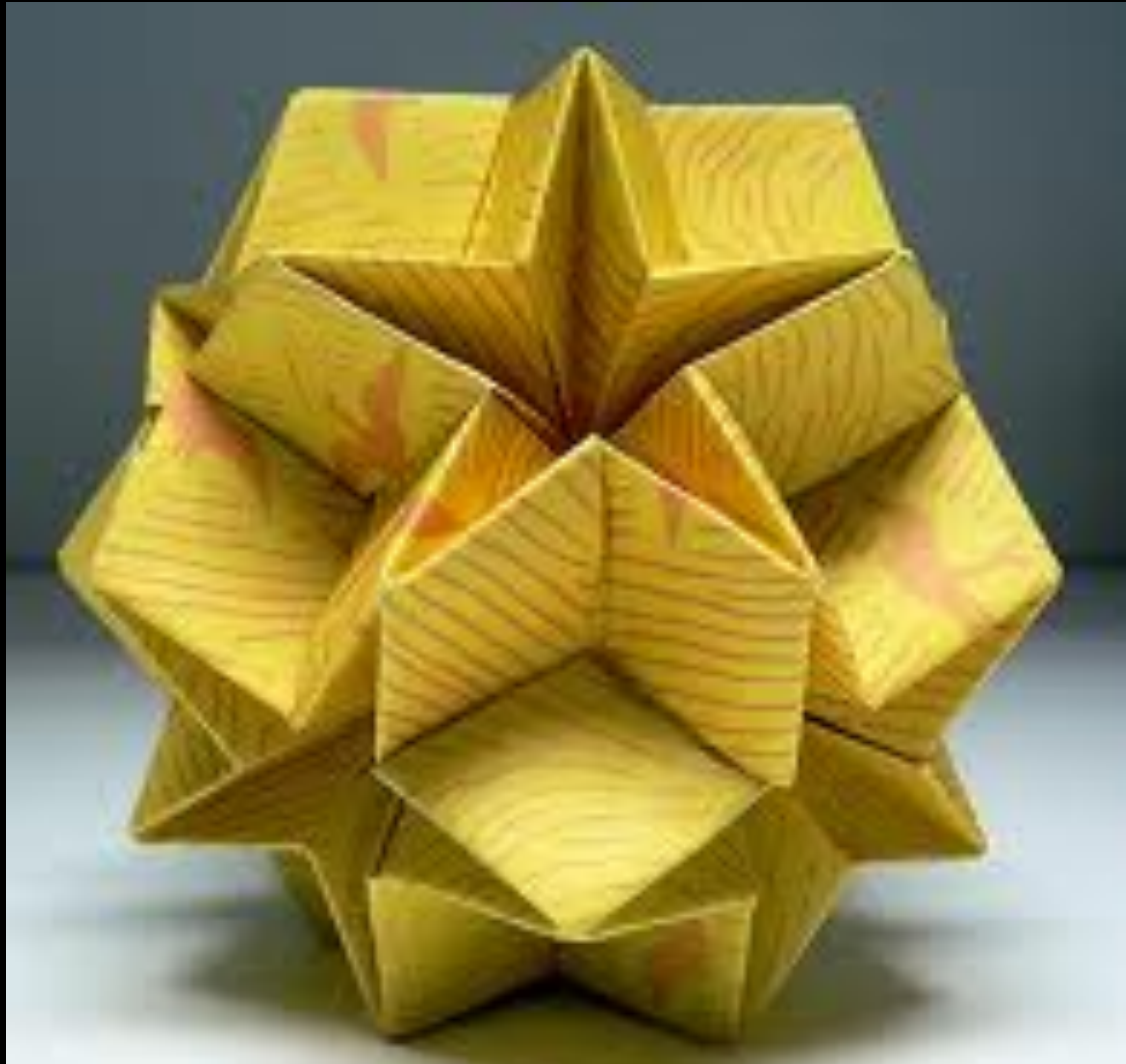


Craig Kaplan—Vornoi Diagram

The chief reason for studying regular polyhedra is still the same as in the time of the Pythagoreans, namely, that their symmetrical shapes appeal to one's artistic sense. -H.S.M. Coxeter



George Hart: Roads Untaken



Jeannine Mosley: Star Ball



Carlos Seguin with Jane Yen—12 Fish 4 colors



Holger Stroem: IQ light



Tom Hull—made with PHiZZ Units



Carlo Seguin: Sushi Bars



George Hart: Dragonflies



Carlo Seguin: E Leaves



Tom Hull: Five Intersecting Tetrahedra



Chiam Goodman-Strauss—Using a paper Grid to model



Chaim Goodman-Strauss Sculpture for G4GX



Robert Longhurst: Arabesque



Breckenridge Snow Sculpture 2000 (Design: based on Longhurst)



George Hart: Snarl



Bathsheba Grossman: Gyroid



Breckenridge Snow Sculpture 2002 (Designer: Grossman)



Vladimir Bulatov: rhombic tricondahedron



Breckenridge Snow Sculpture 2003 (Designers: Collins & Seguin)



Bathsheba Grossman: Metatron



Akio Hizume: Mumagari (quasiperiodic)



Akio Hizume: Mumagari detail



Hinke Osinga with metal sculpture



Hinke Osinga and Bernd Krauskopf: Lorentz Surface



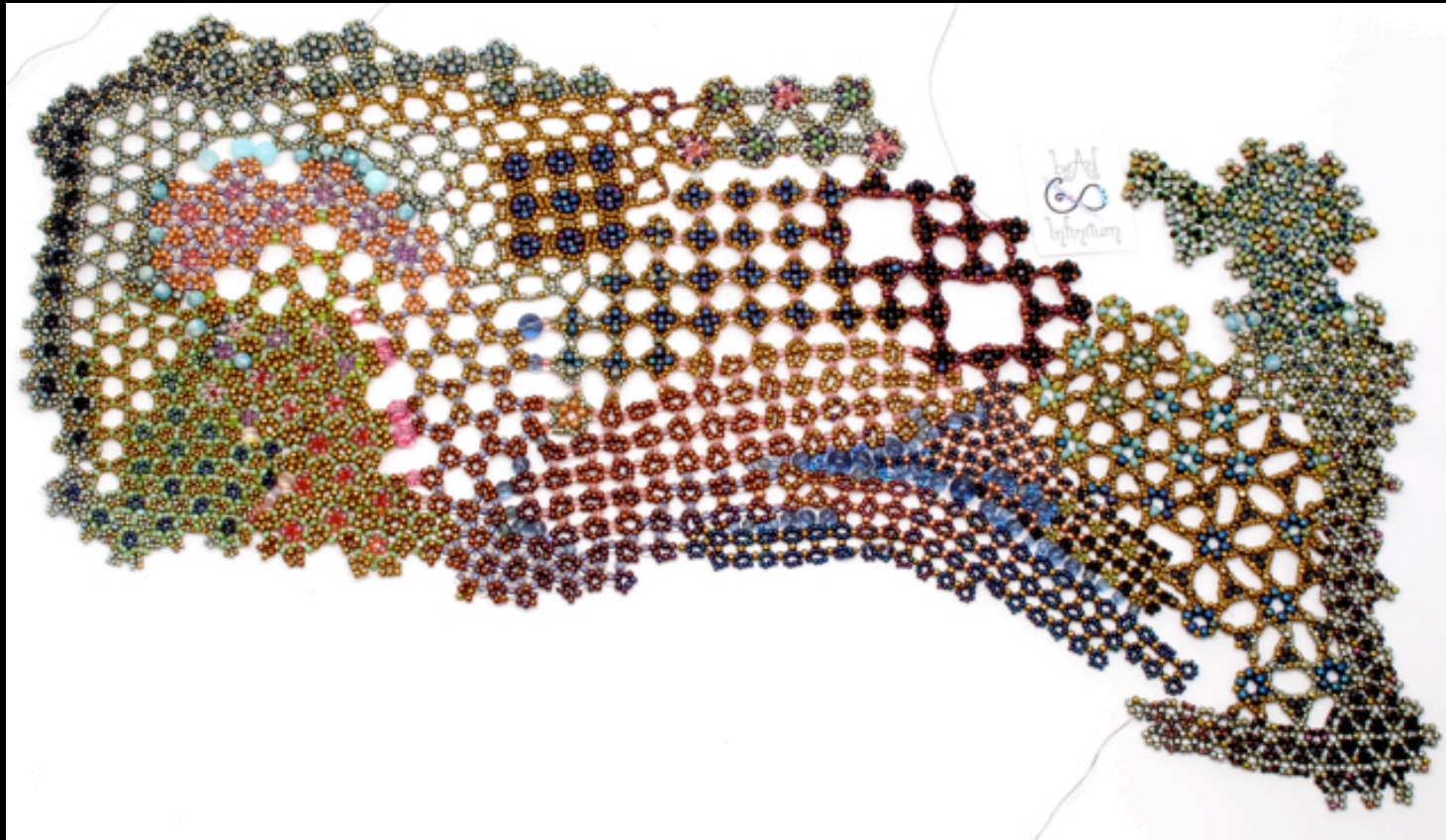
Bathsheba Grossman: Noom



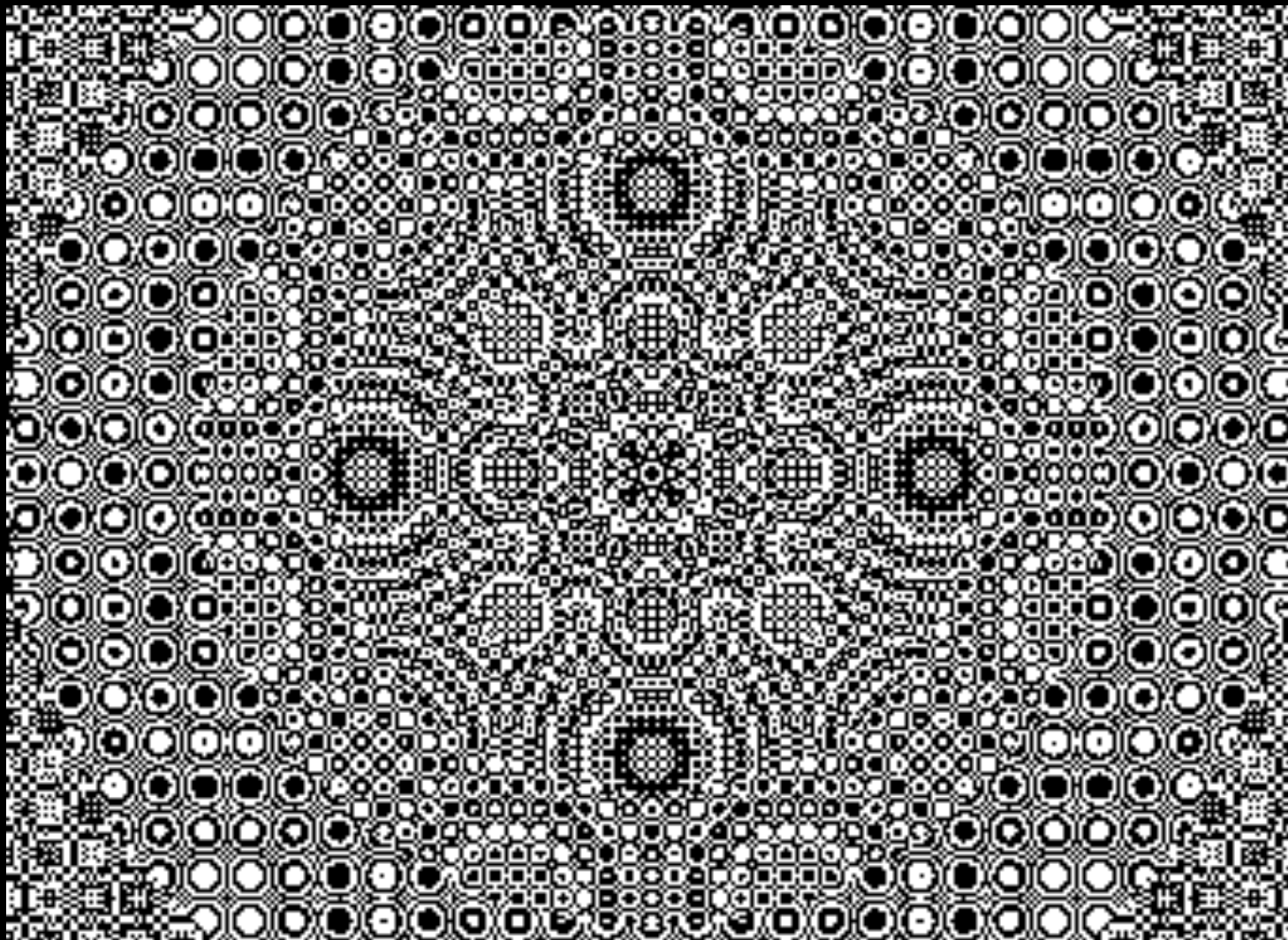
Bathsheba Grossman Lamps



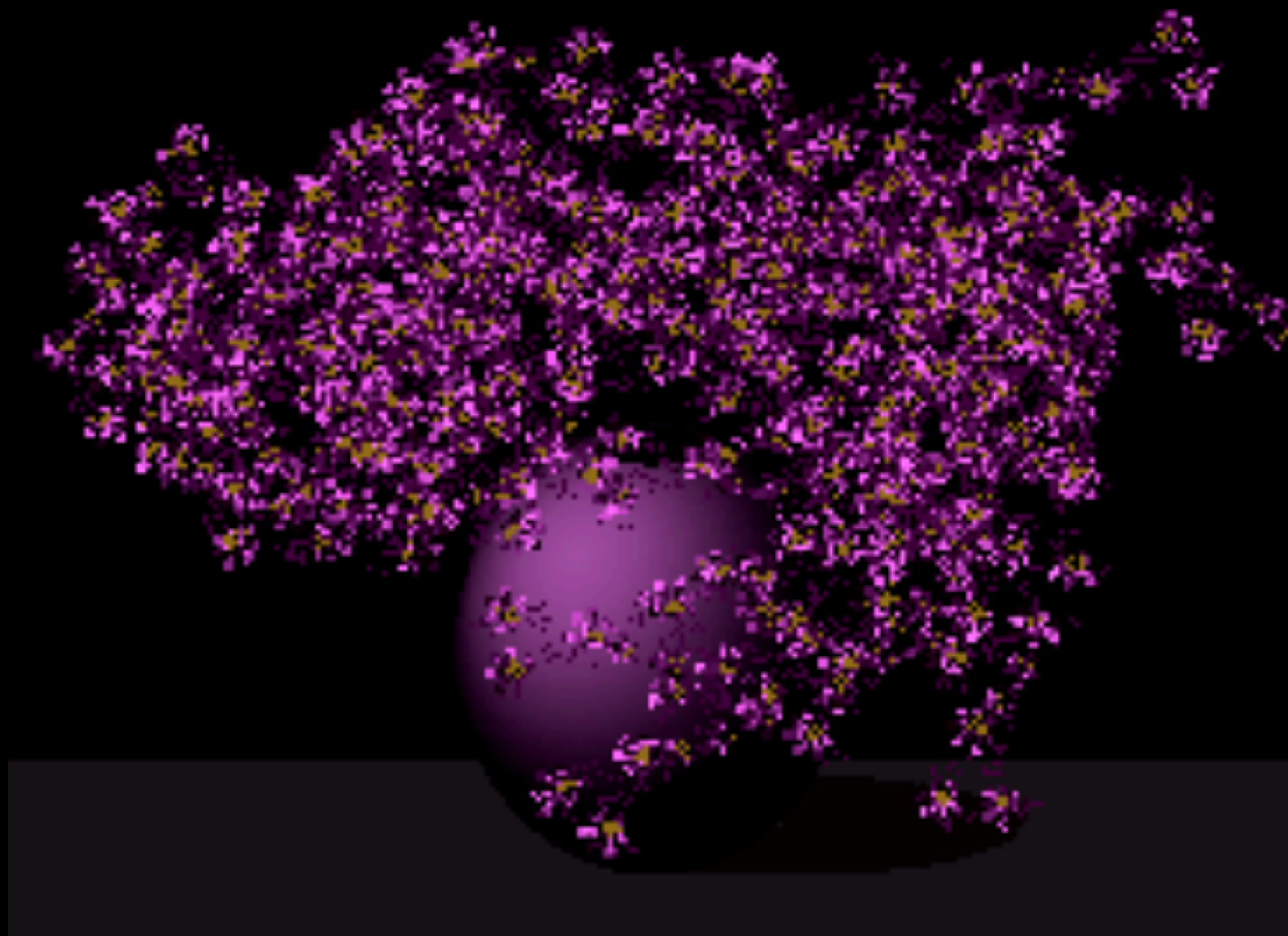
George Hart: Echodermania



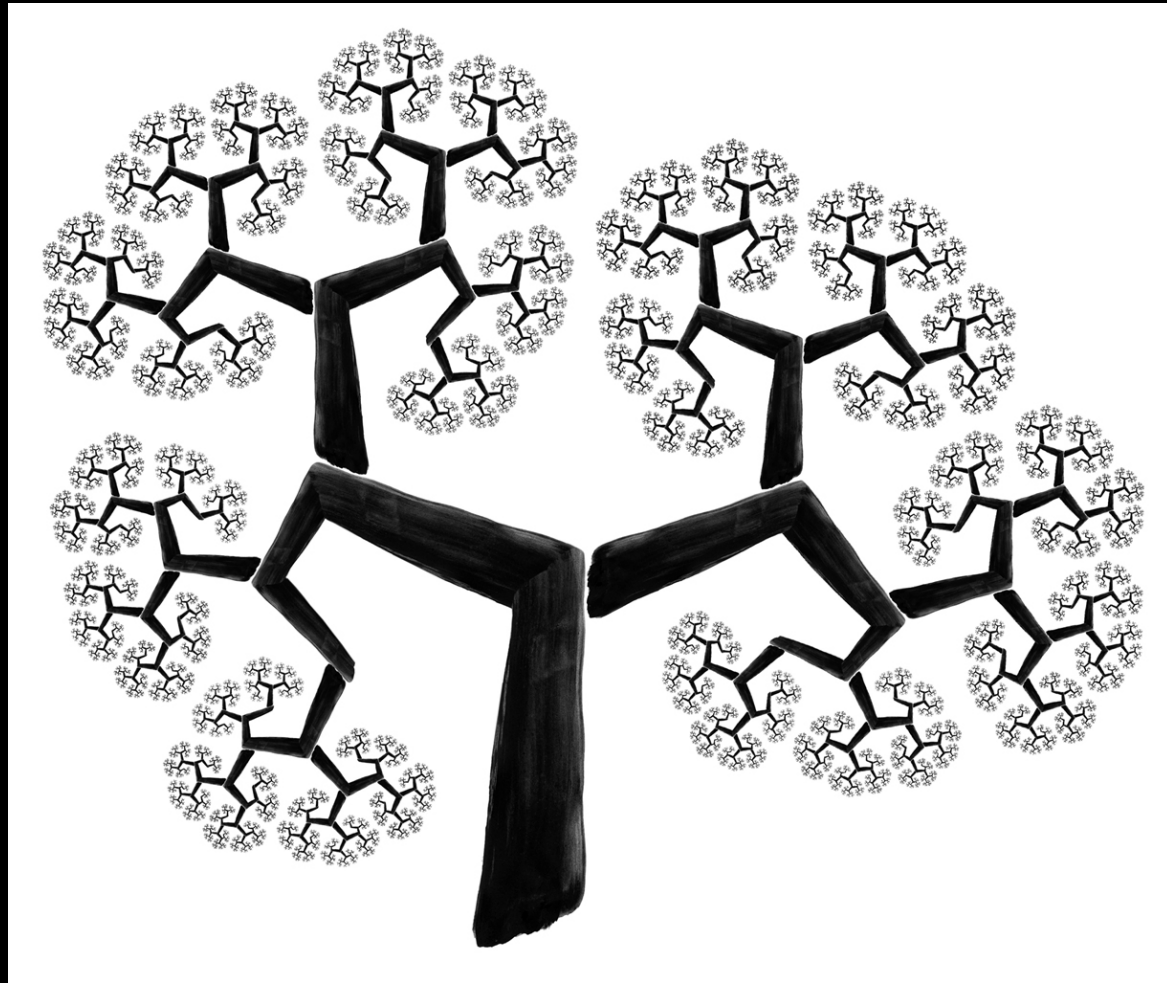
Gwen Fisher: Chaos and Order



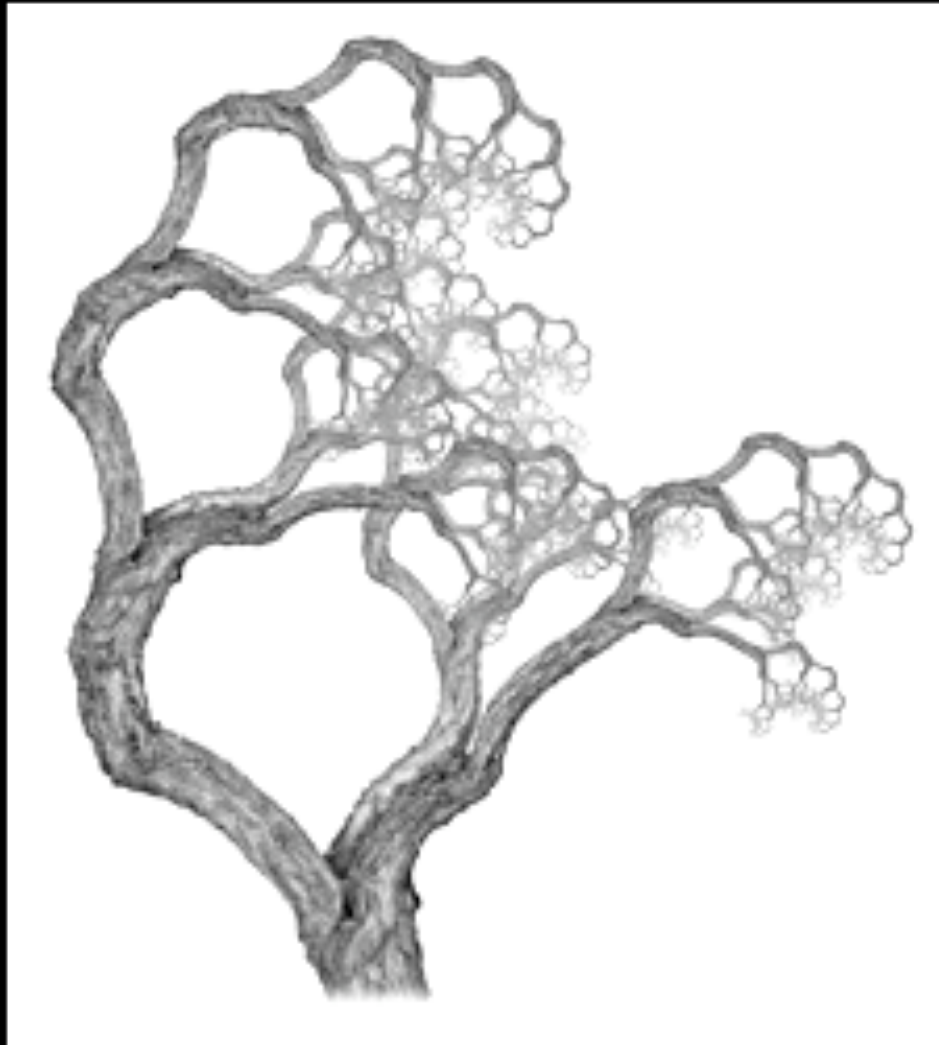
Craig Kaplan—Alias Pattern



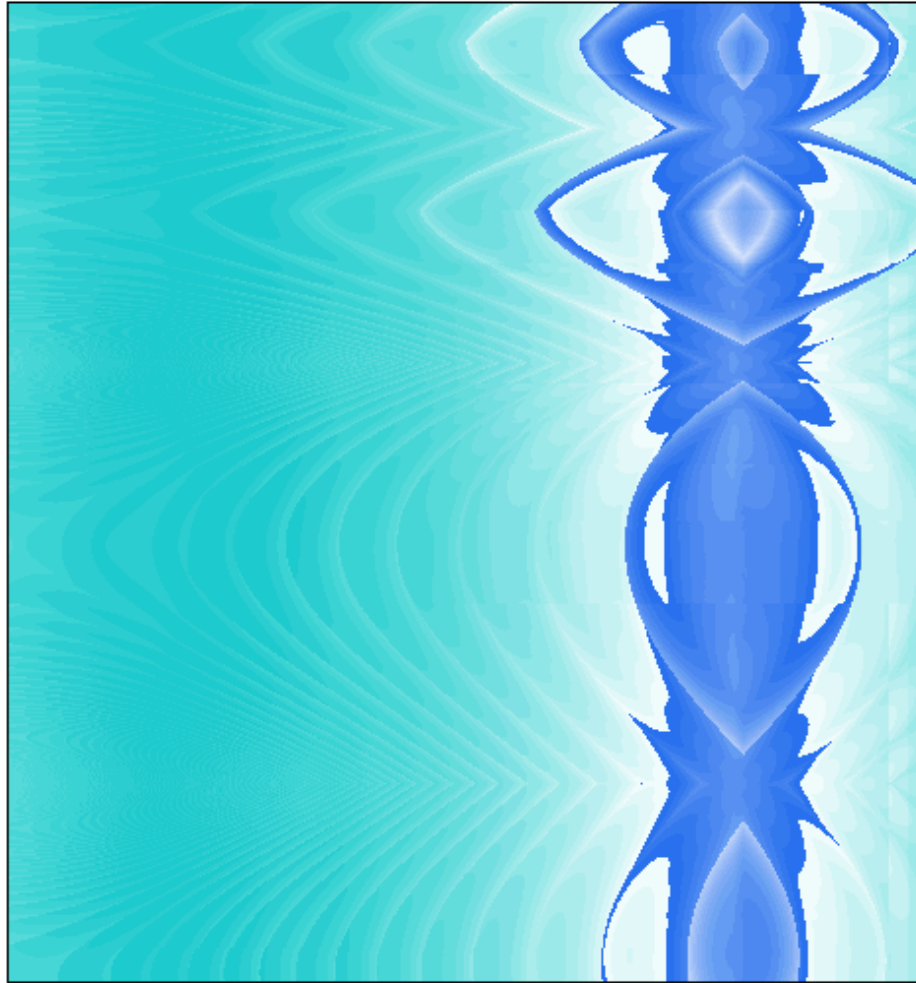
Anne Burns



Robert Fathauer: Fractal Tree No. 1



Robert Fathauer—Fractal Tree No. 4



"Thinking of Beardsley"

c1994 Gary R. Greenfield

Gary Greenfield: Thinking of Beardsley

Included Artists

Vladimir Bulatov

Anne Burns

Bob Bosch

Brent Collins

Doug Dunham

M.C. Escher

Robert Fathauer

Helaman Ferguson

Gwen Fisher

Gary Greenfield

Chaim Goodman-Strauss

Bathsheba Grossman

George Hart

Akio Hizume

Tom Hull

Bjarne Jespersen

Craig Kaplan

Scott Kim

Berndt Krauskopf

Robert Longhurst

Jeannine Mosley

Hinke Osinga

Chris Palmer

Emilly Peters

Paul Prudence

Rinus Roelofs

Carlo Seguin

Holger Stroem

Irena Swanson

Florence Turnour

Daina Taimina

This presentation was not comprehensive. Many other exciting mathematical artists exist!