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Perceiving Mathematics and Art

Edmund Harriss

University of Arkansas, Fayetteville

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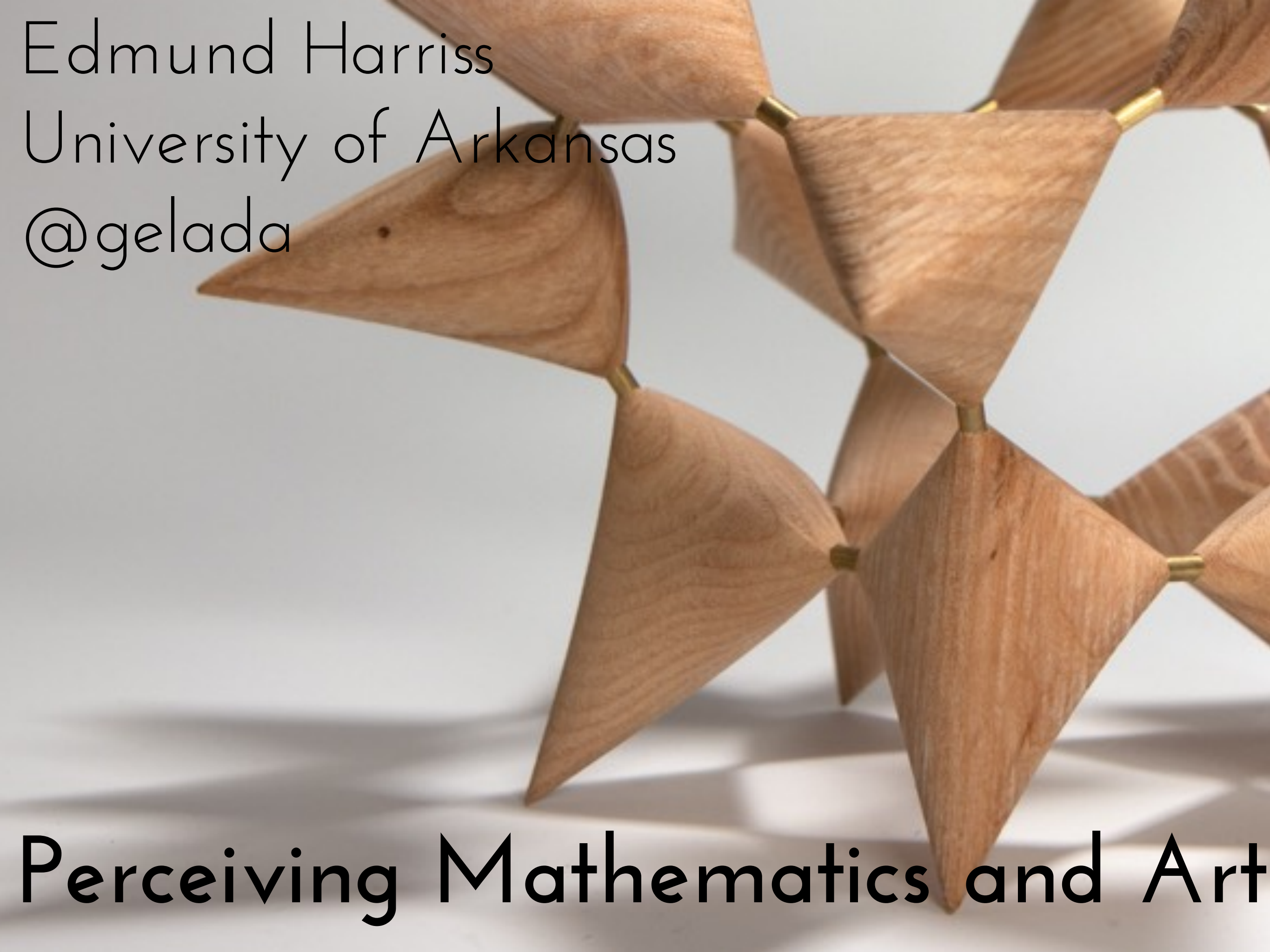


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Edmund Harriss
University of Arkansas
@gelada

Perceiving Mathematics and Art

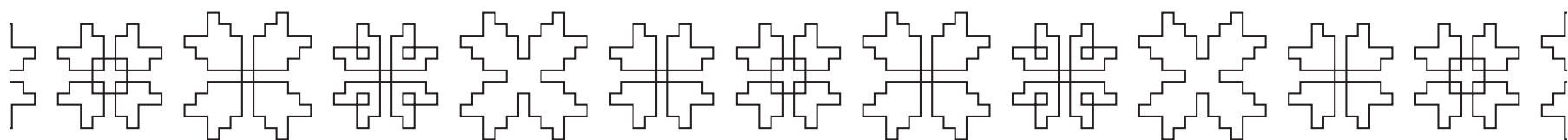
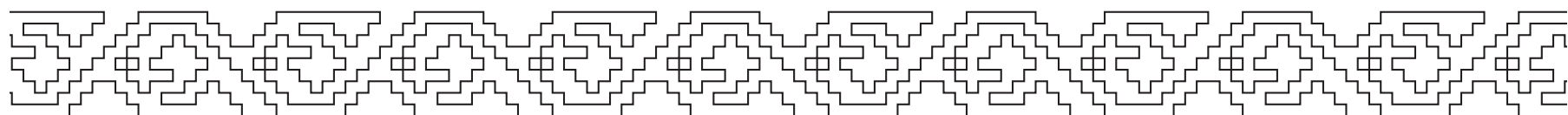
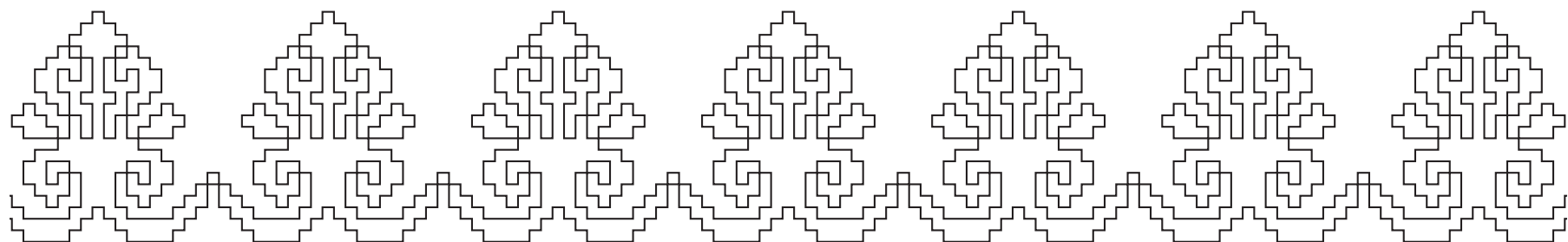
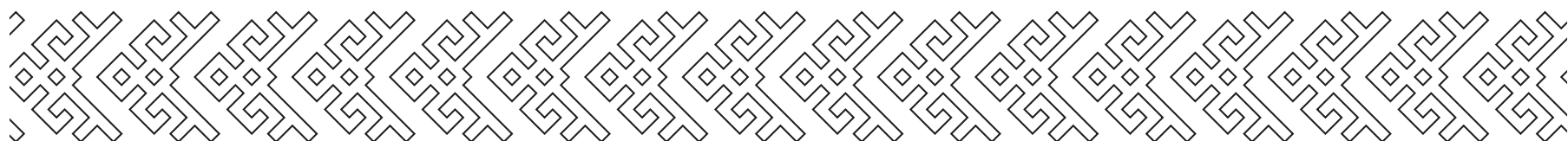
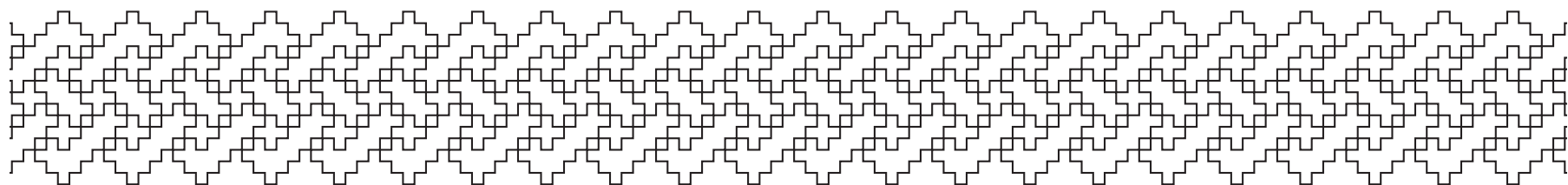
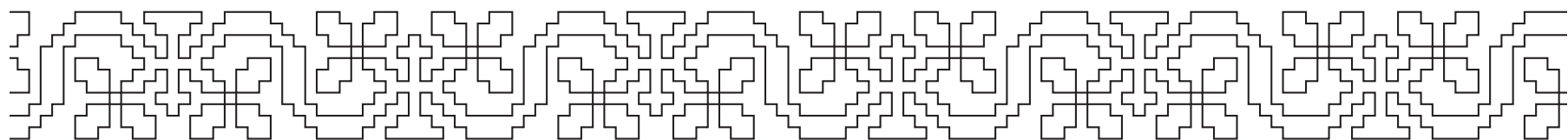
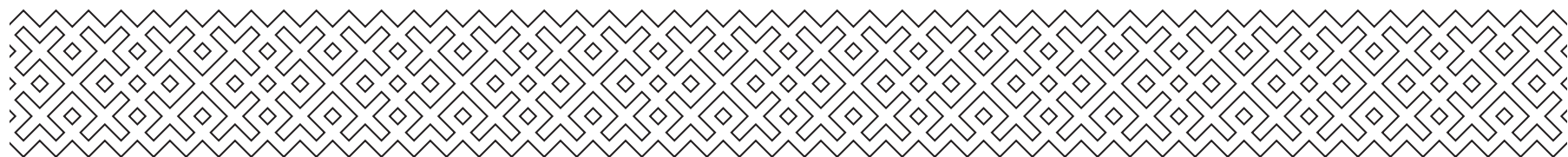
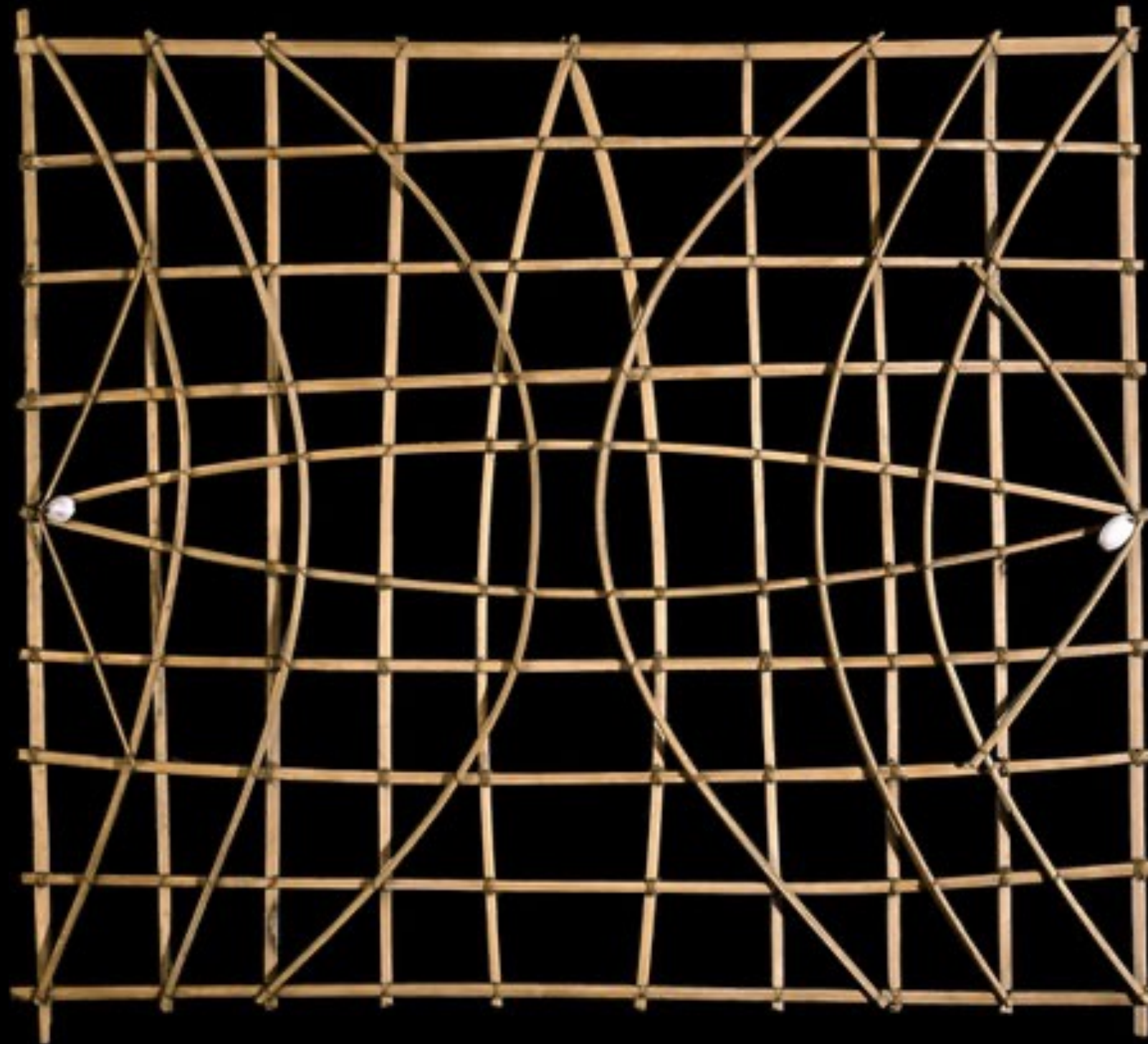
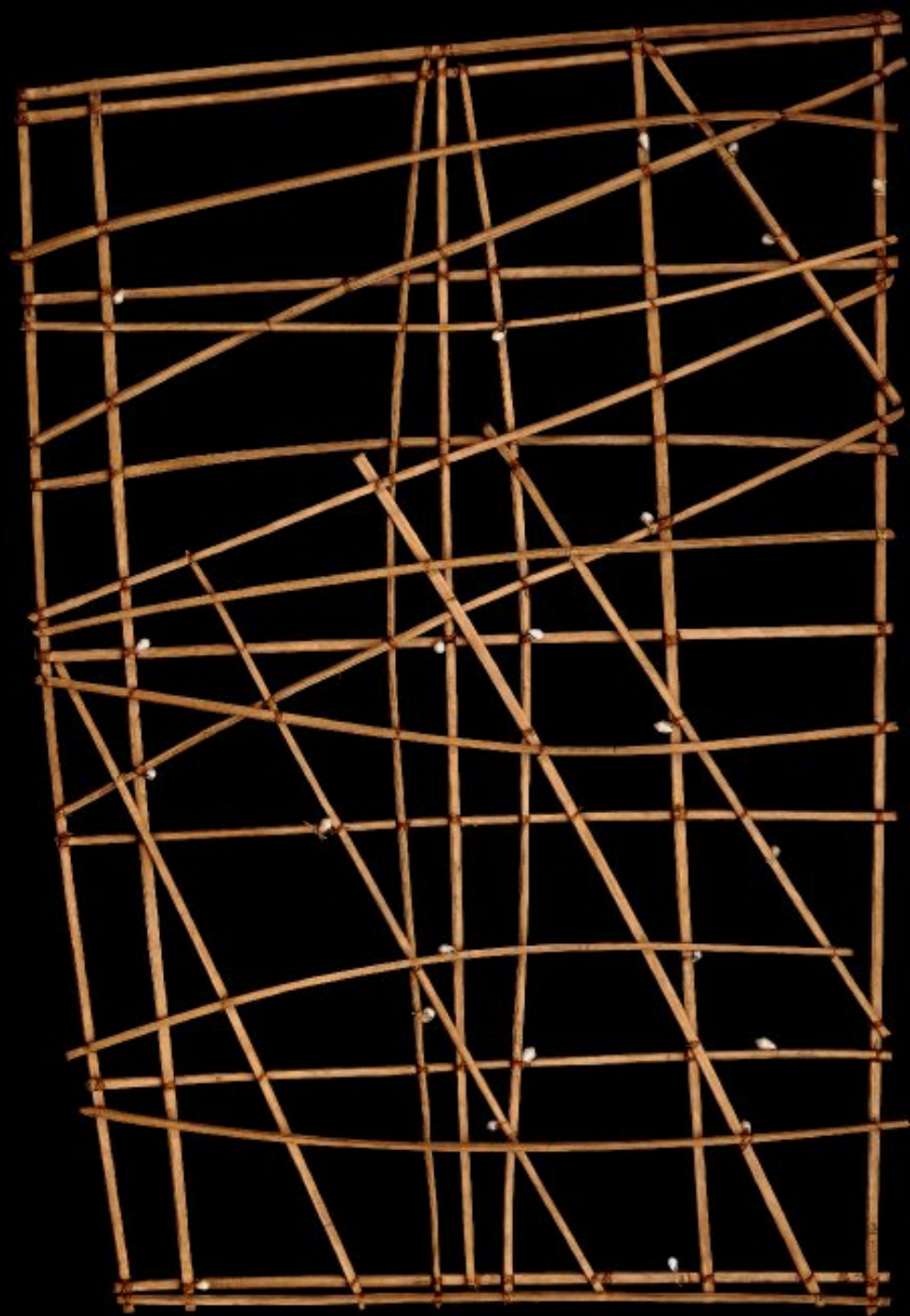




Photo:ArniEin (Wikimedia commons)

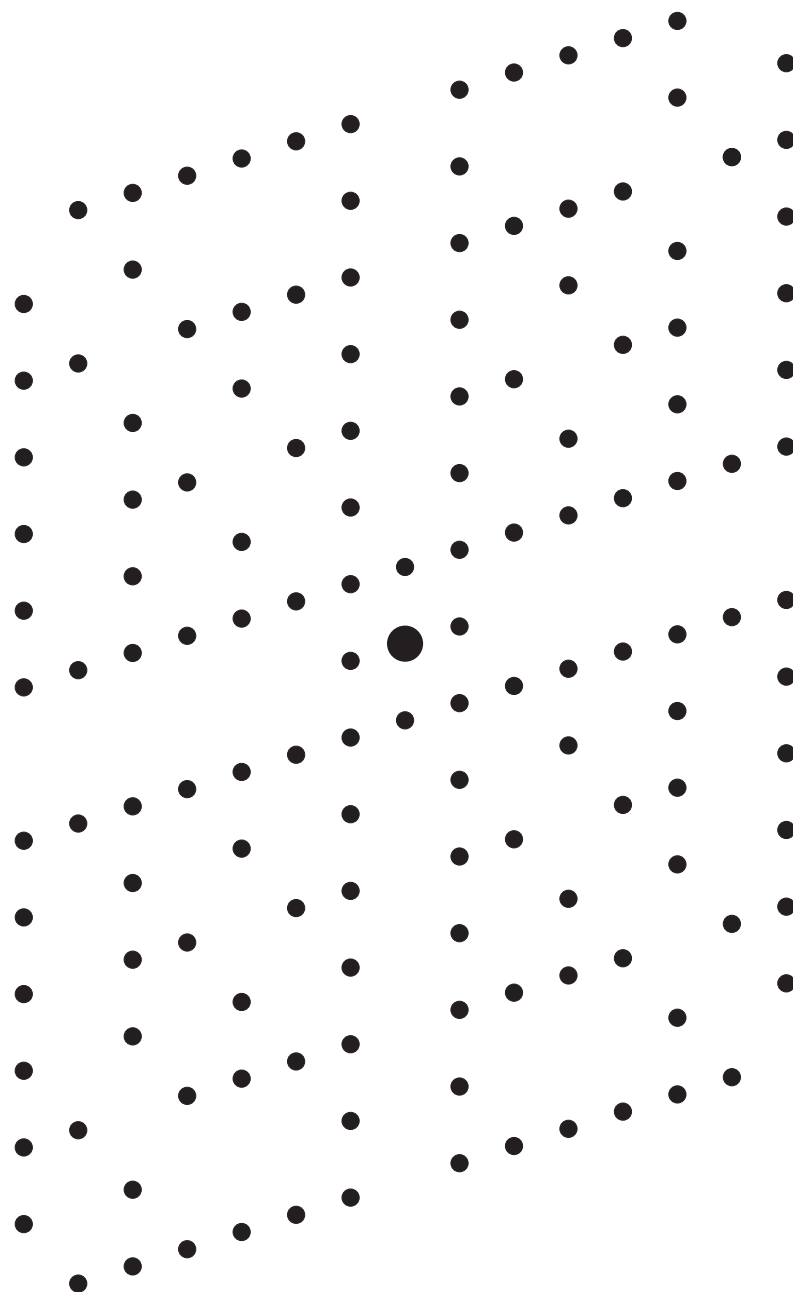
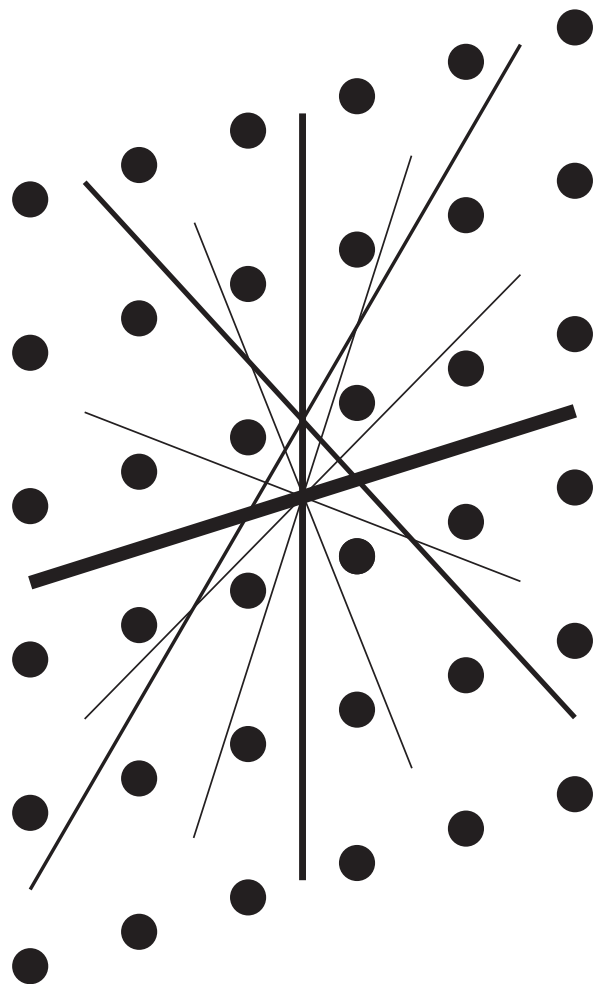
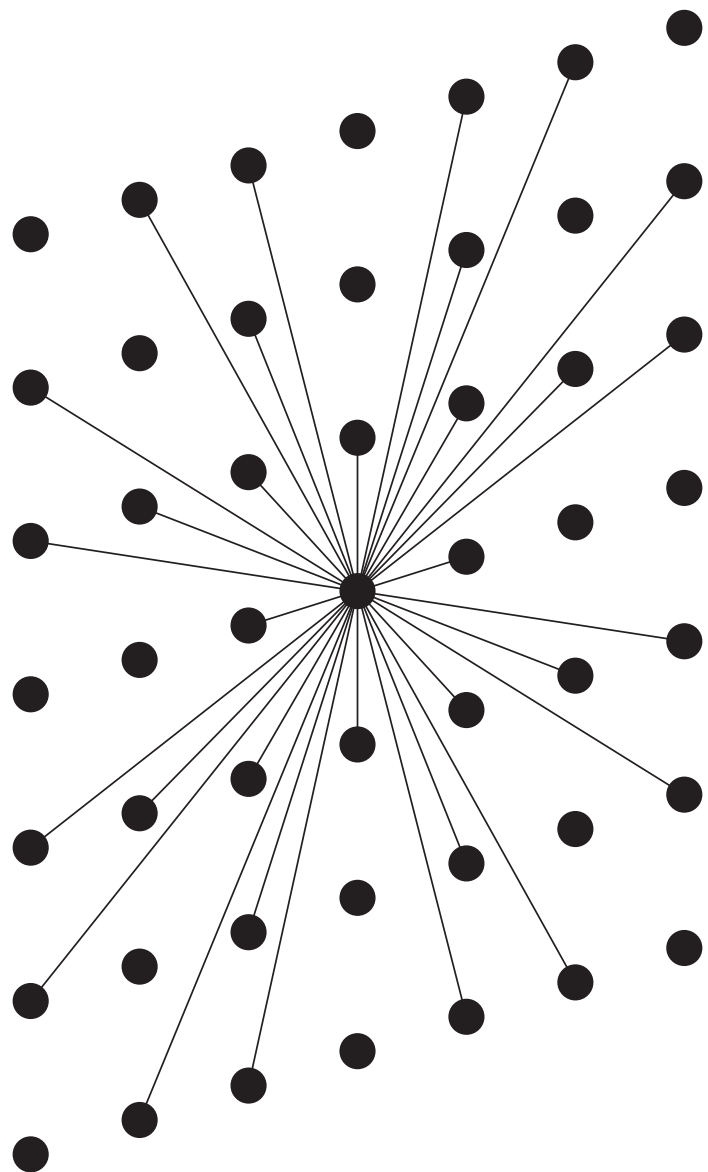


Photos: British Museum



Photo: Timothy Hursley

Maths tool: Grids



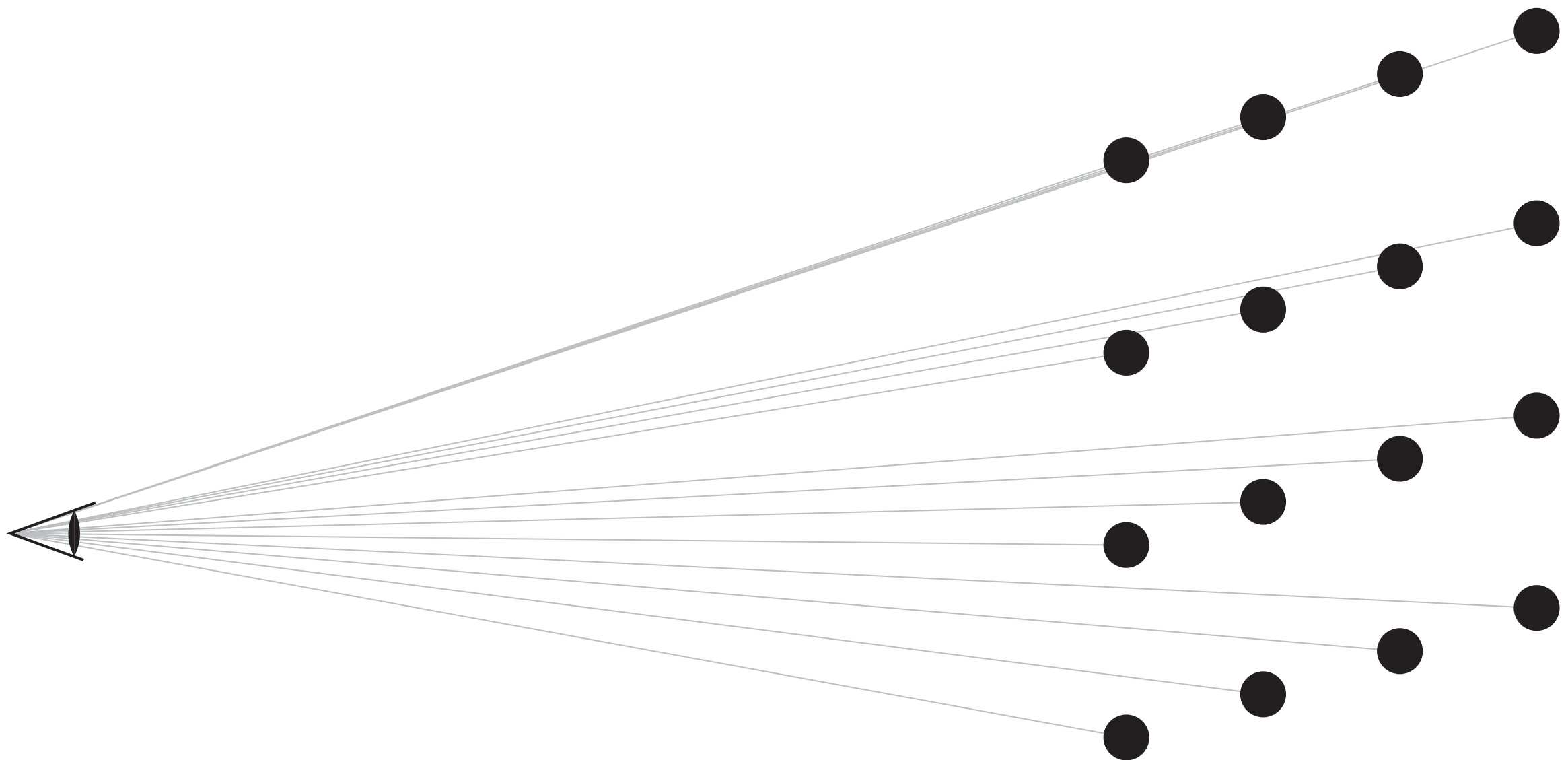
~~Art~~ Methods tool: Perspective

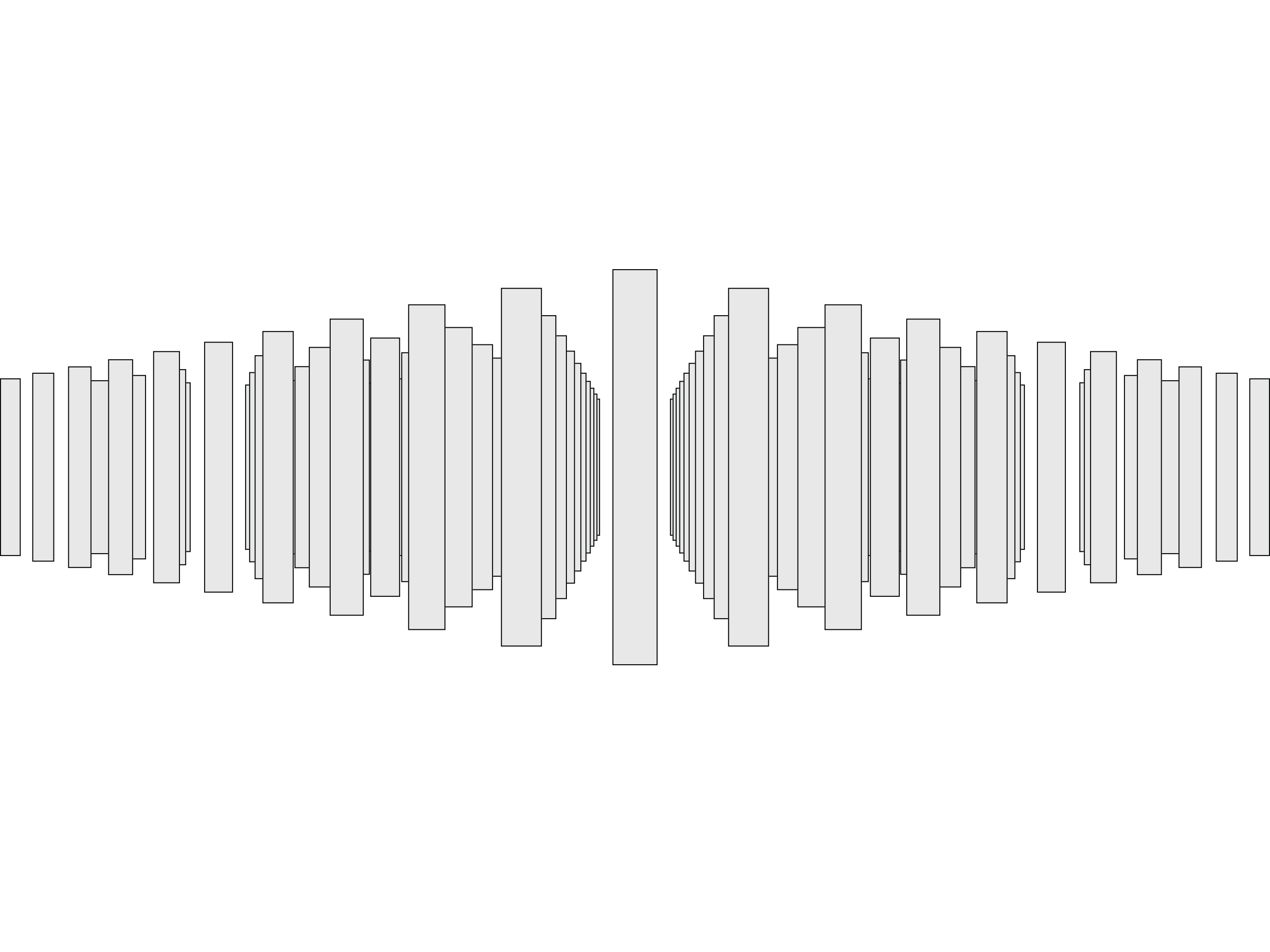


Gipkyn 1614



Canaletto 1746





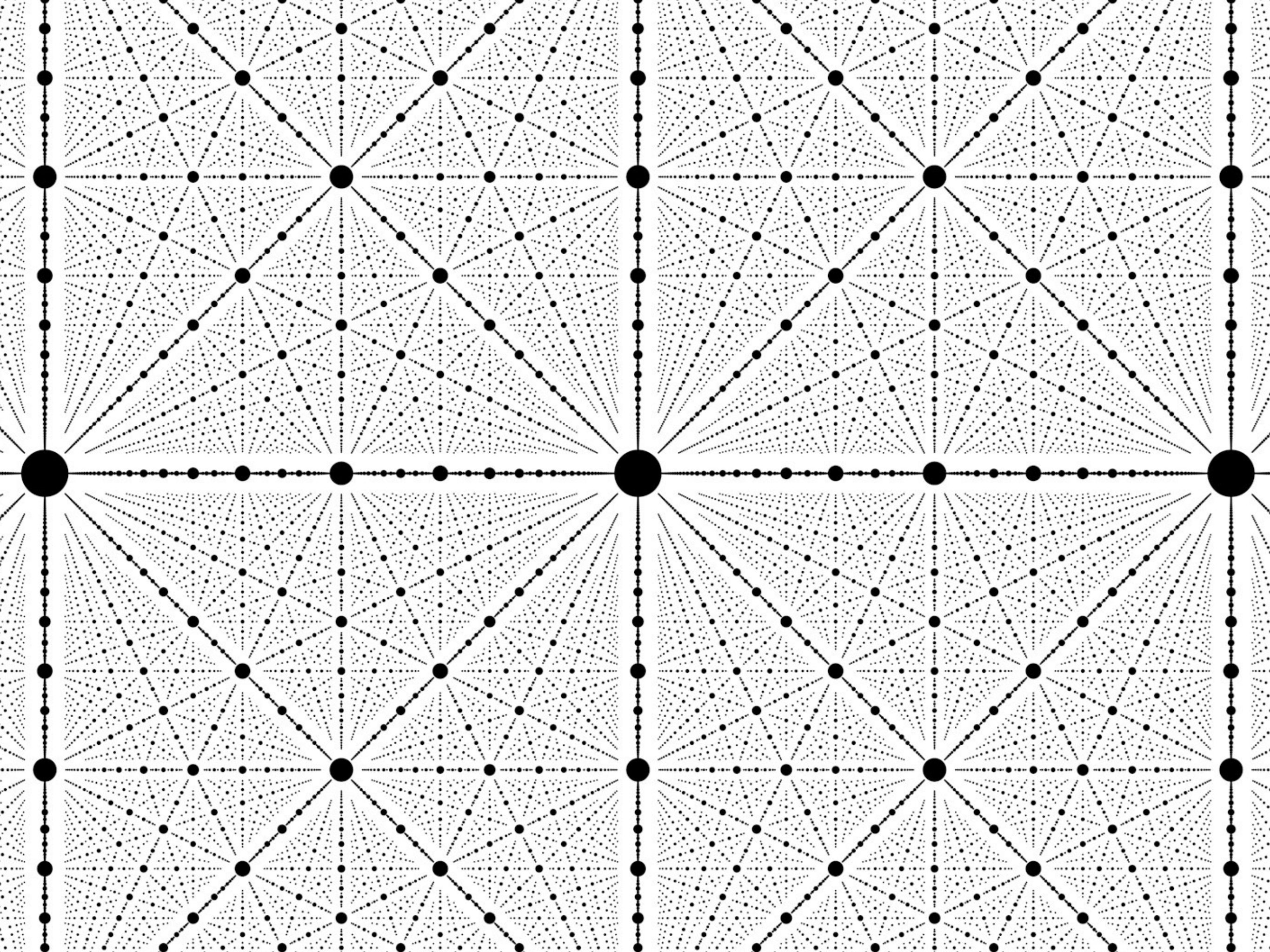




Photo: Timothy Hursley

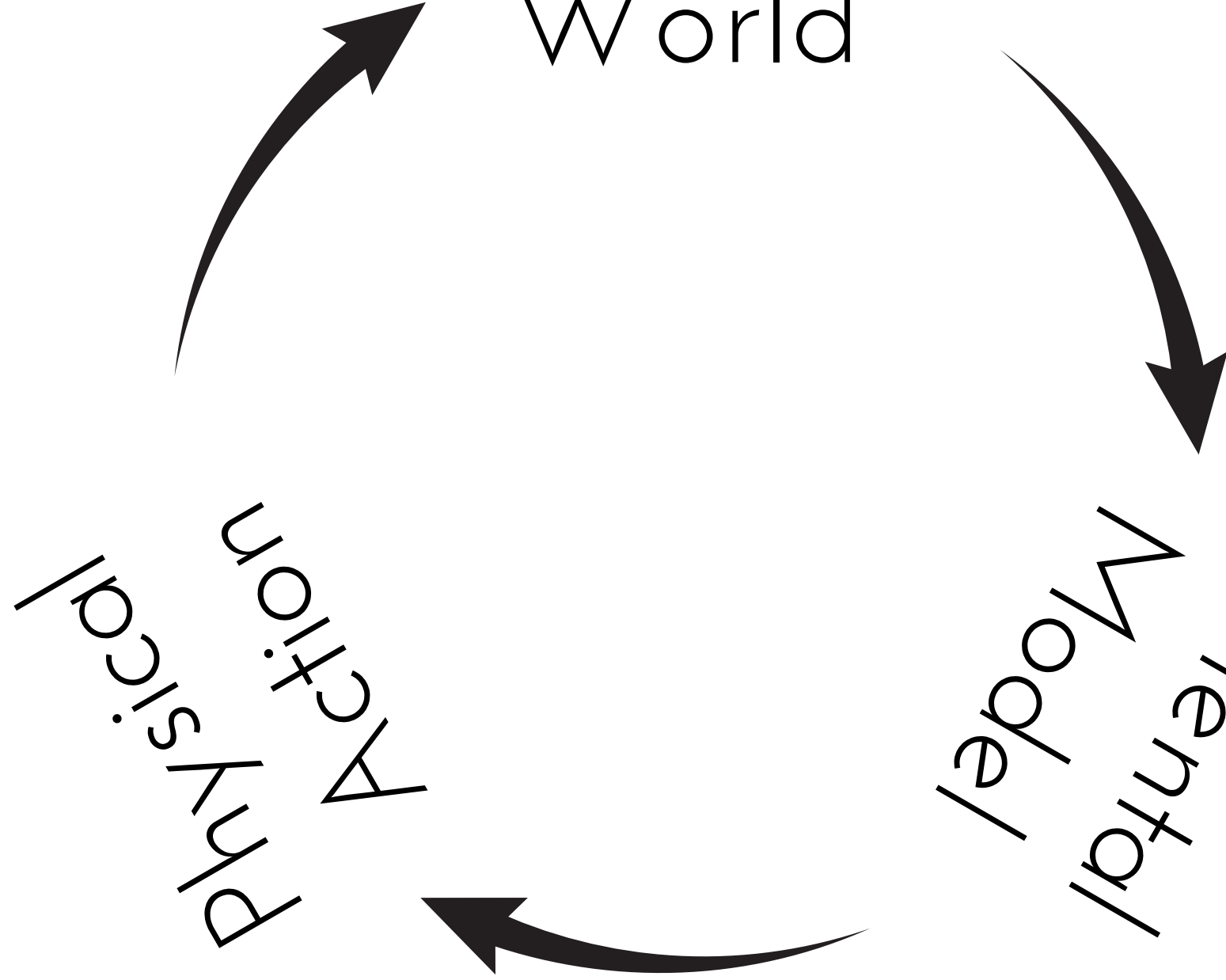
Art is not to render the visible,
but to render visible.

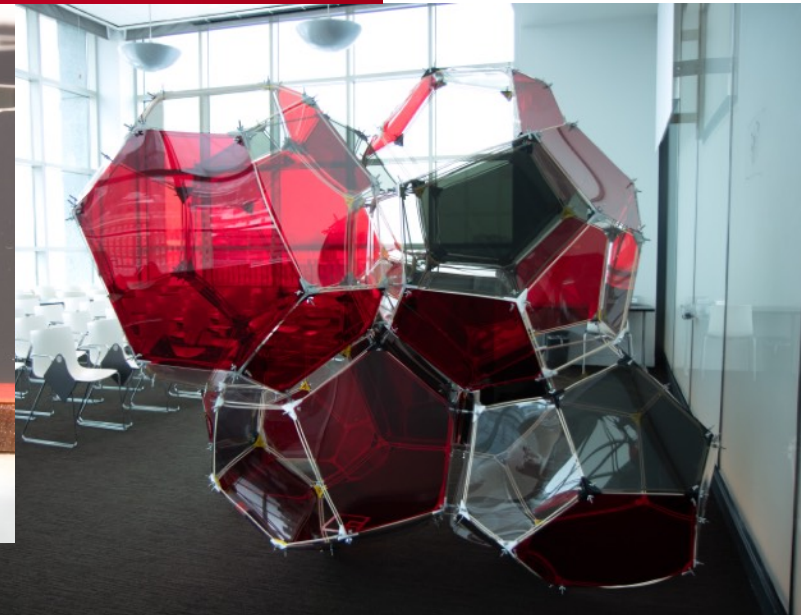
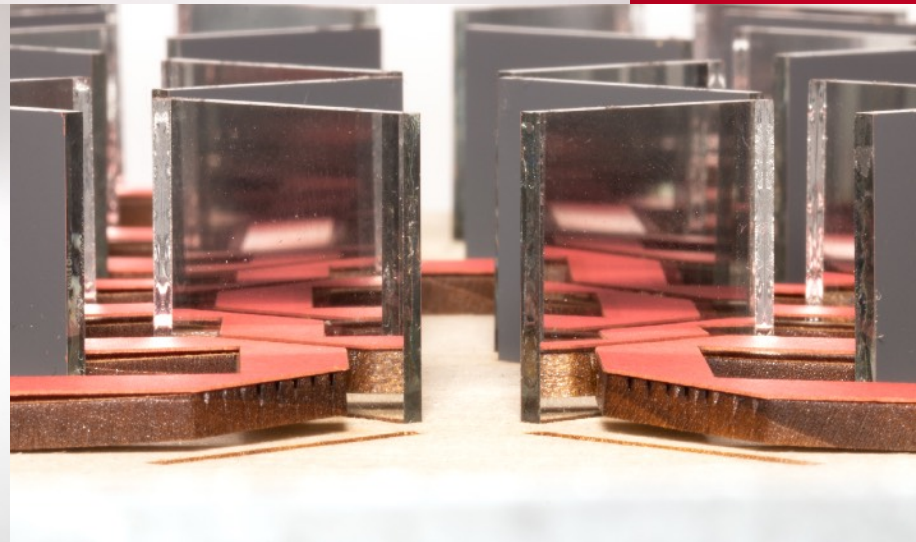
Paul Klee quoted by Peter Lowe

The
World

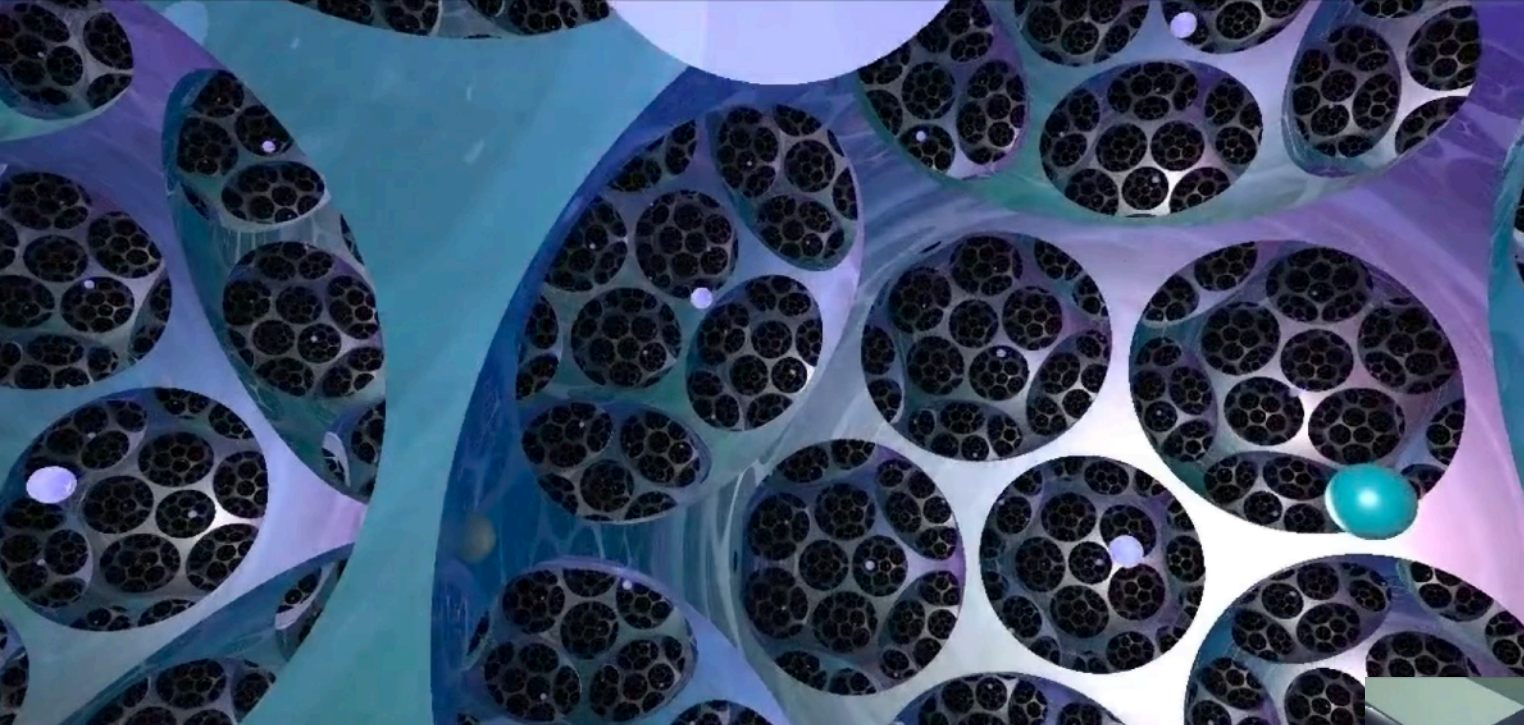
Mental/
Model/

Physical/
Action



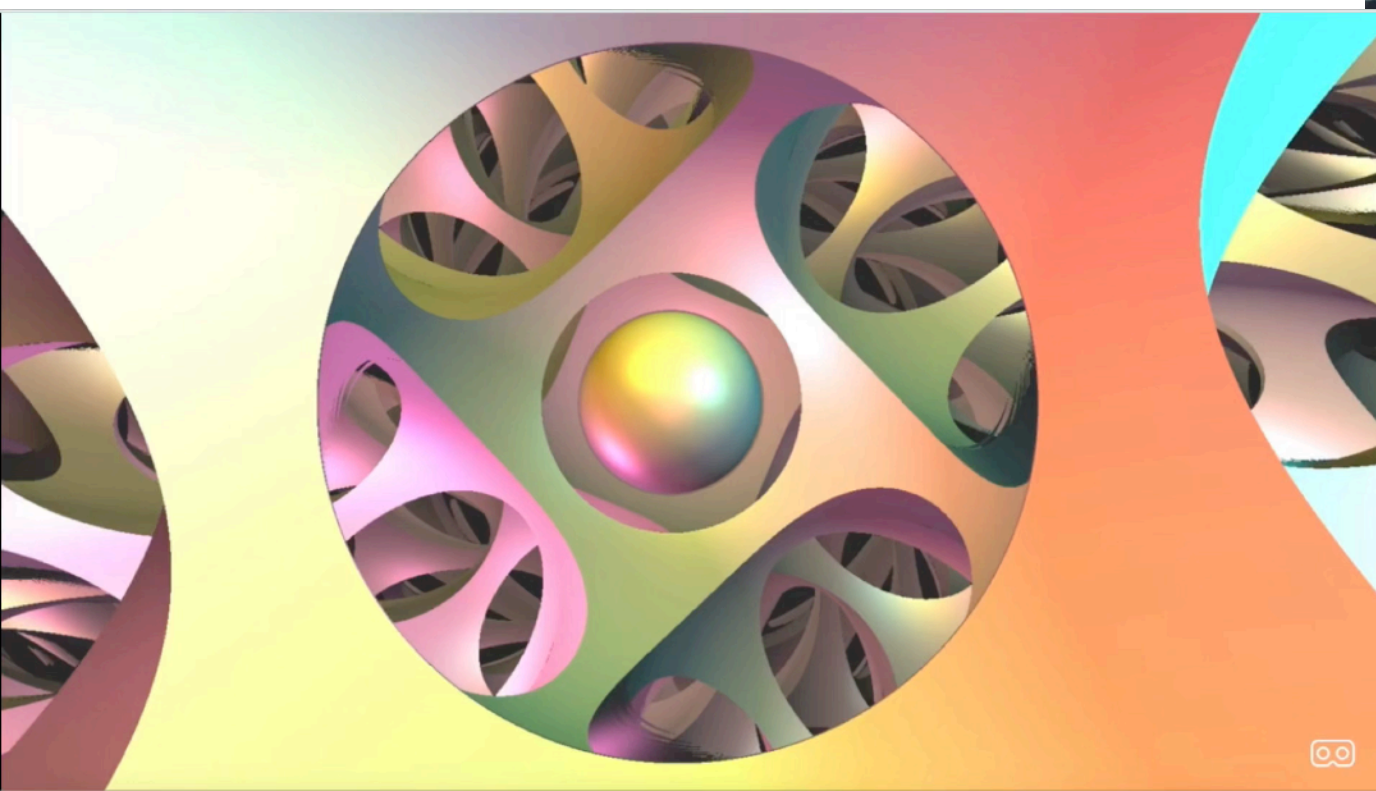
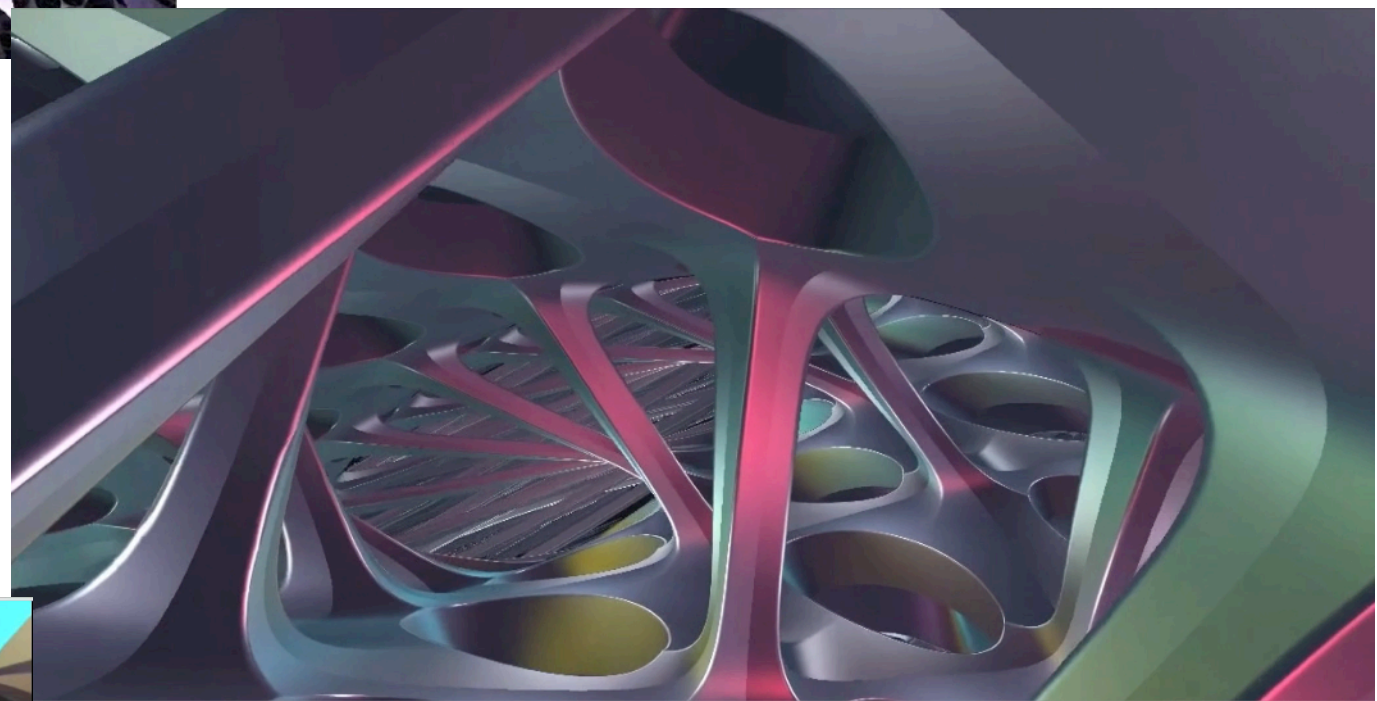


Illustrating Mathematics
ICERM Fall 2019



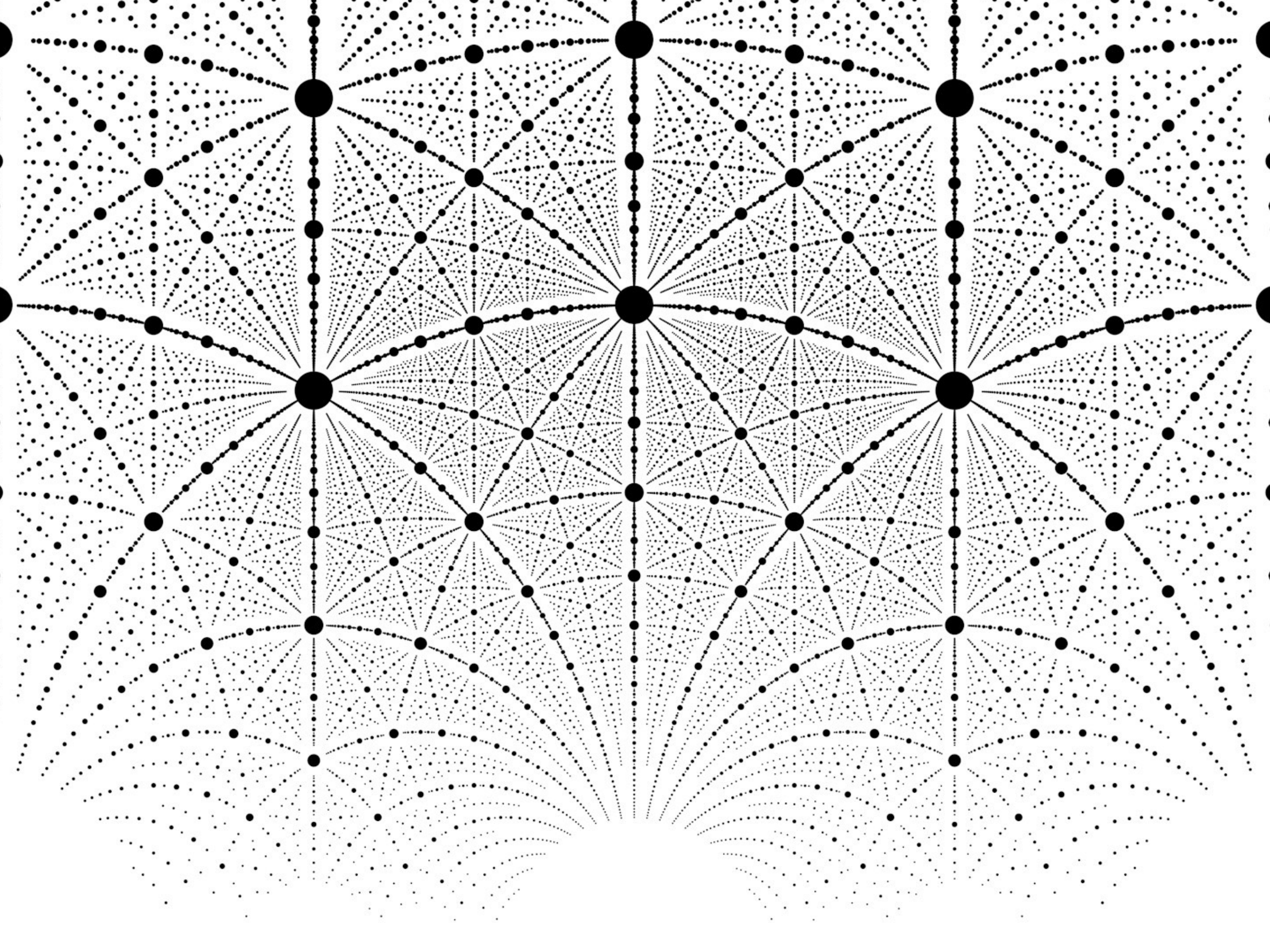
Dodecahedral Space

Nil



Sol

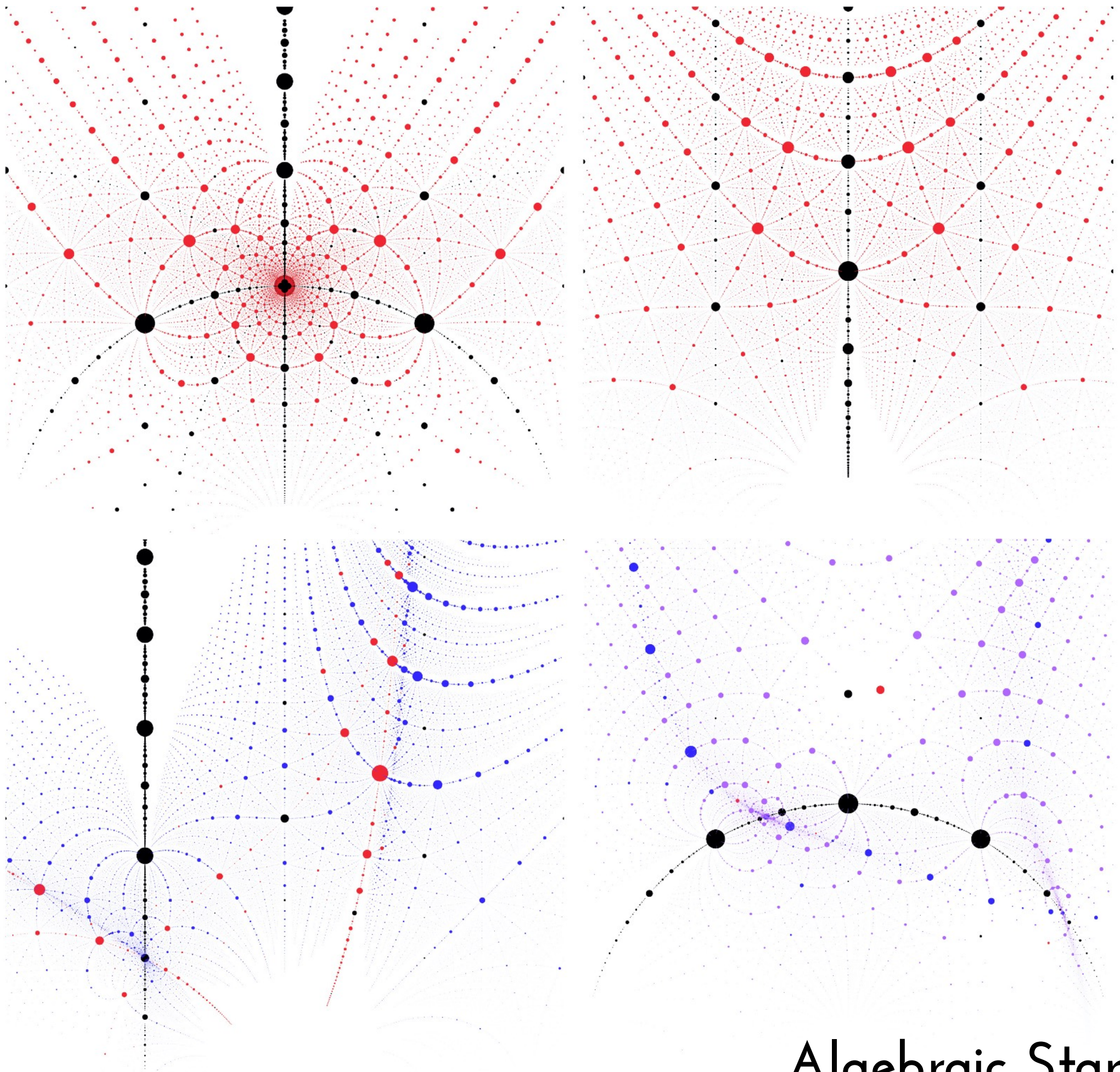
Henry Segerman, Sabetta Matsumoto,
Steve Trettel, Remi Coulon



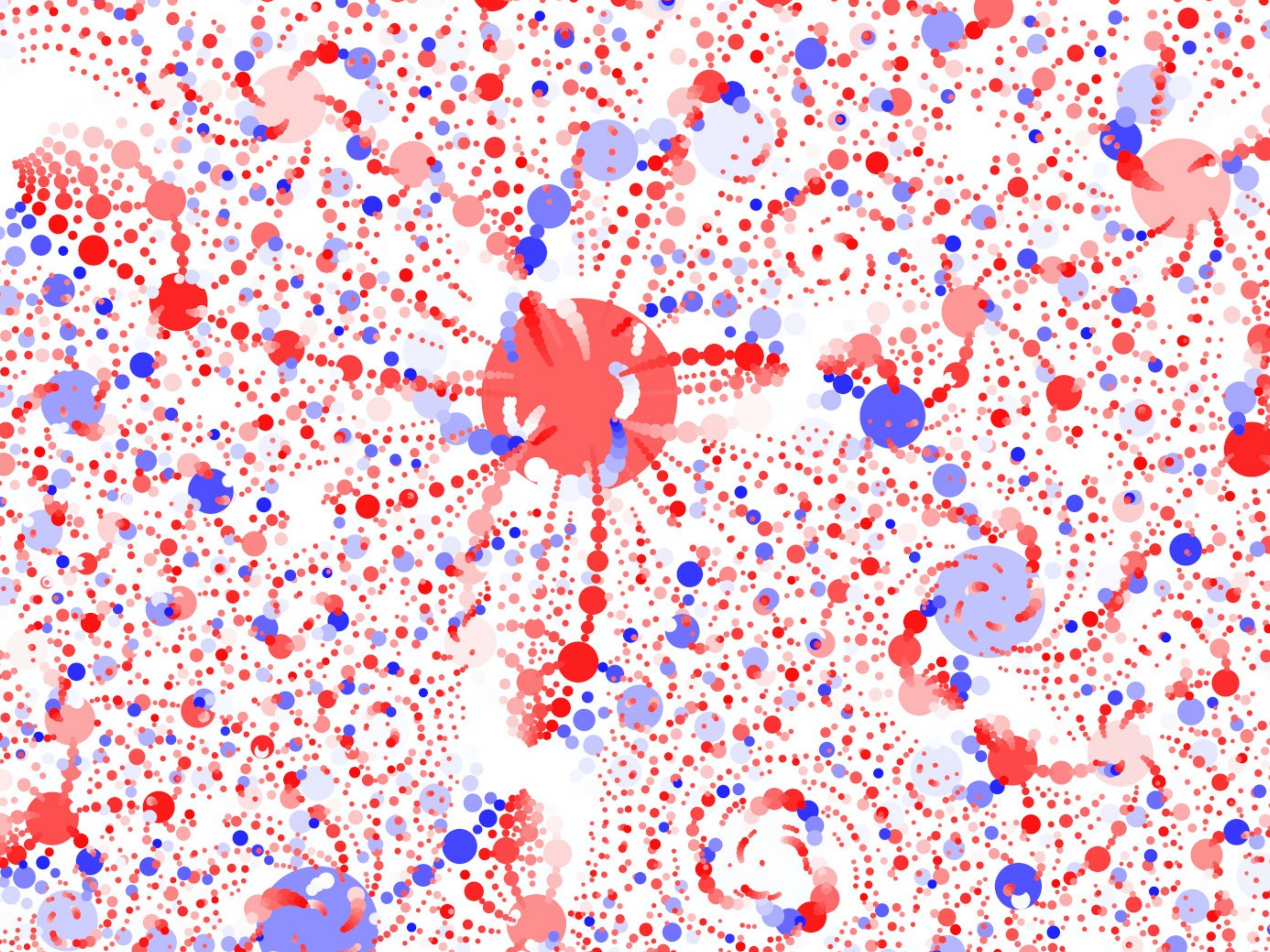
Maths tool: Solving Equations

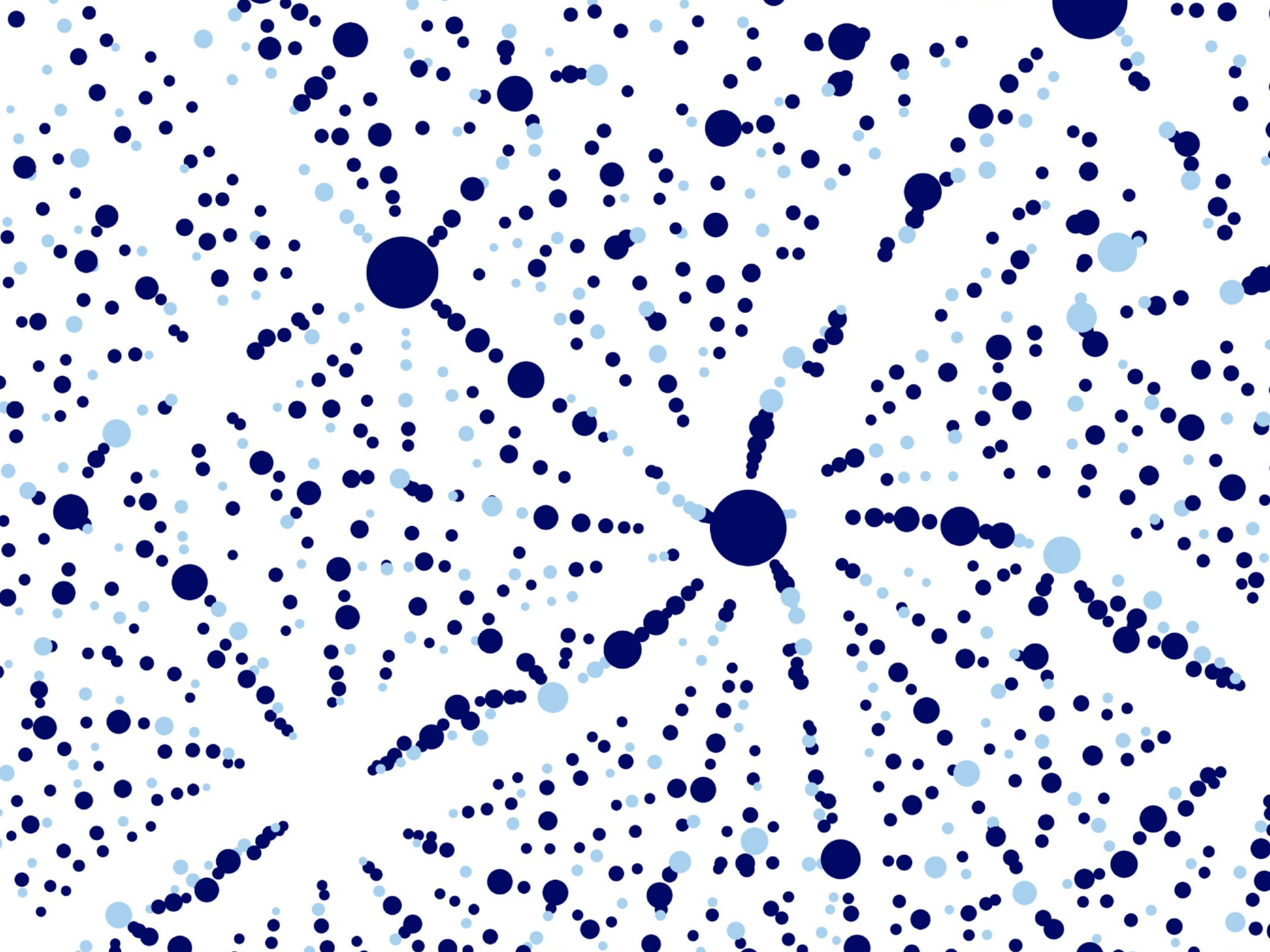
Maths tool: Doing
everything

For limited values of
everything



Algebraic Starscapes





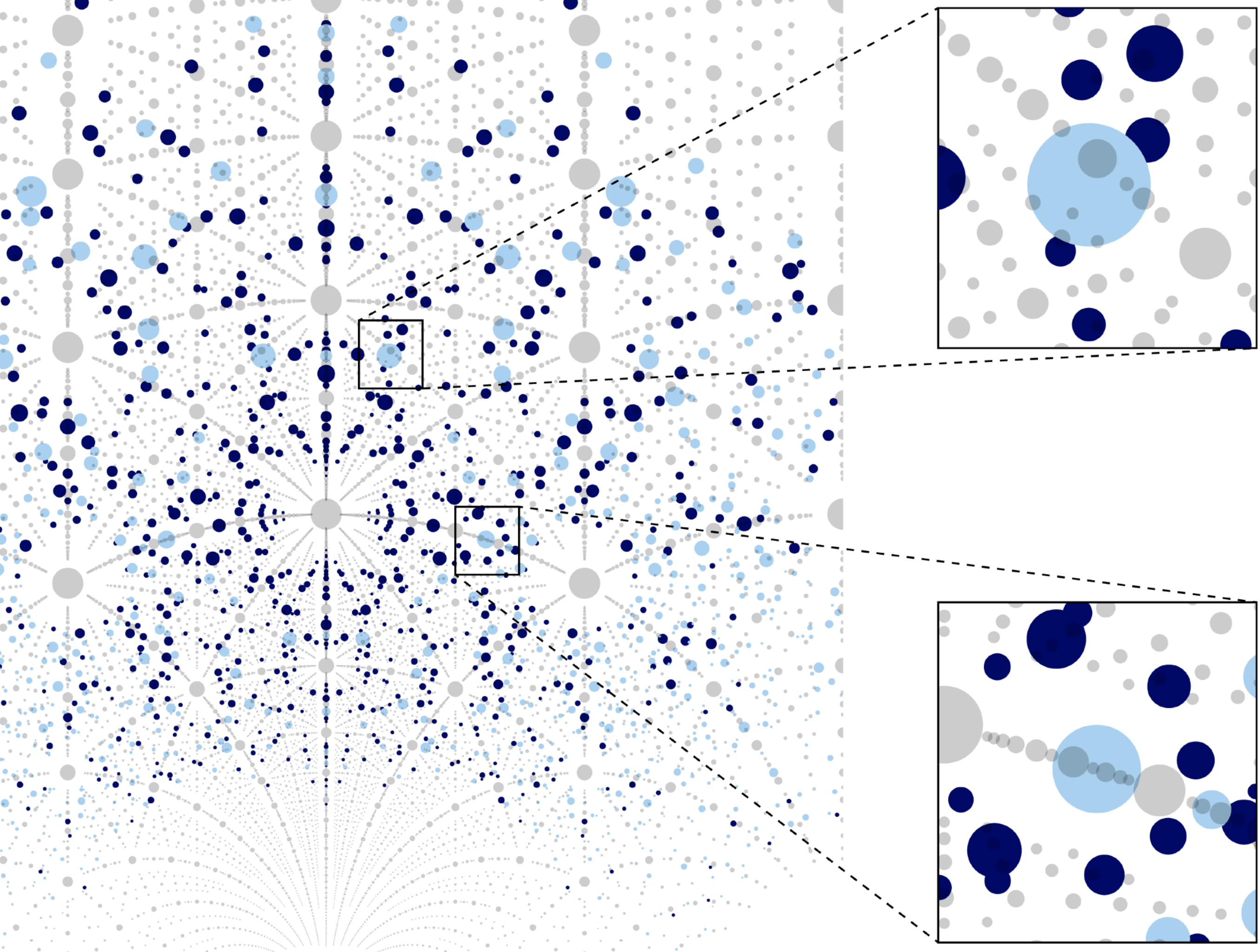










Photo: Russell Cothren









Conway's Curios is a small shop that satisfies your need for all sorts of curious mathematical objects. Next door, in the mathematical bakery, Arnold the cat cooks up geometric delicacies that can be eaten on the balcony above the shop. Conway's Curios sits downtown in the imaginary world of Mathemalchemy, created by a collection of mathematicians and artists. This realm presents the beauty, joy, whimsy, and humour of mathematics alongside mathematical substance and rigour. The whole project is slowly coming to life—hence the shop's closure for refurbishment—but will be touring the US soon. For further information, go to www.mathemalchemy.com.

Constructed by Edmund Harriss, the shop is filled with mathematical delights created by Vladimir Bulatov, Faye Goldman, Susan Goldstine, Edmund Harriss, Ásgerður Johannesdóttir, Sabetta Matsumoto, Elizabeth Paley, Cliff Stoll, and Mary William, in collaboration with Bronna Butler, Ingrid Daubechies, Dominique Ehrmann, Rochy Flint, Jessica K. Sklar, and Caroline Yackel.



