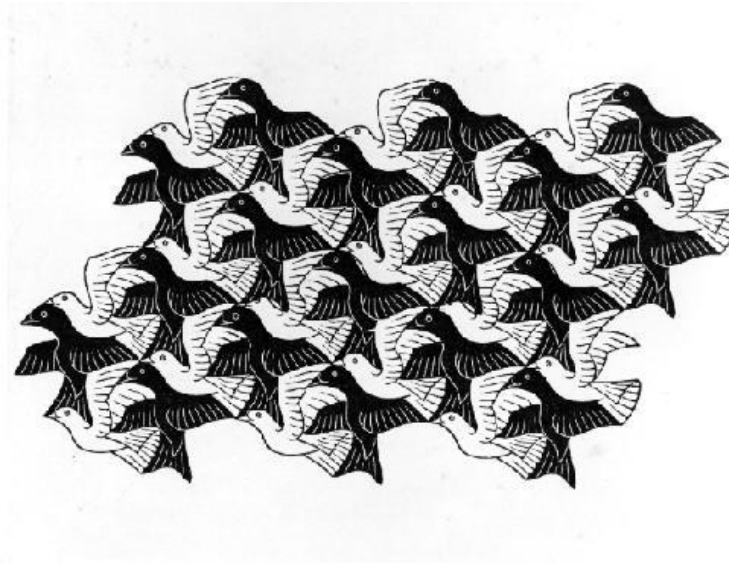




Mosaicos y teselaciones

Arte fractal

Julio Rodríguez Taboada

Santander, septiembre 2019

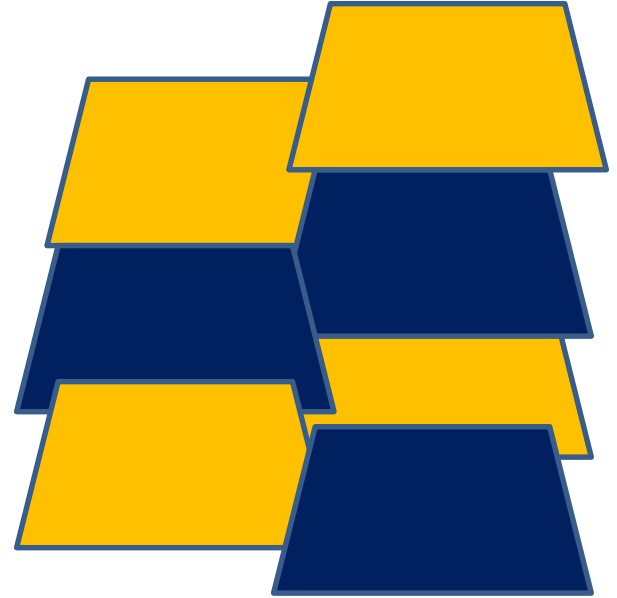
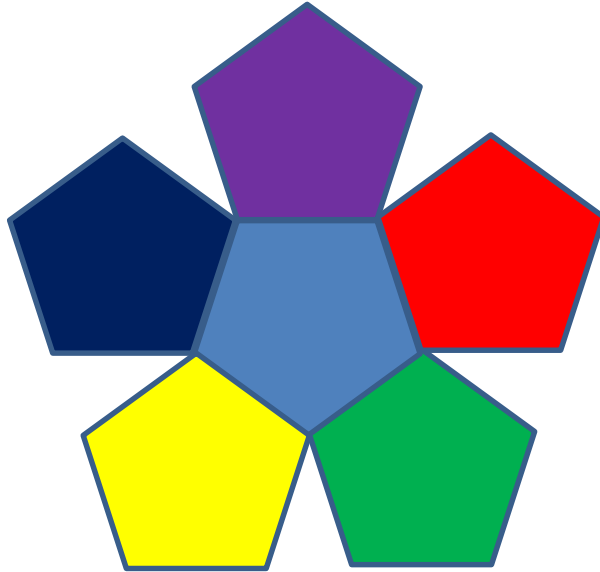
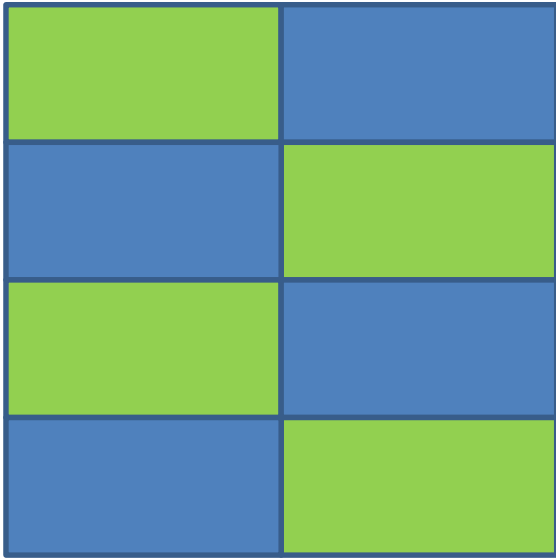
Mosaicos. La geometría se hizo arte



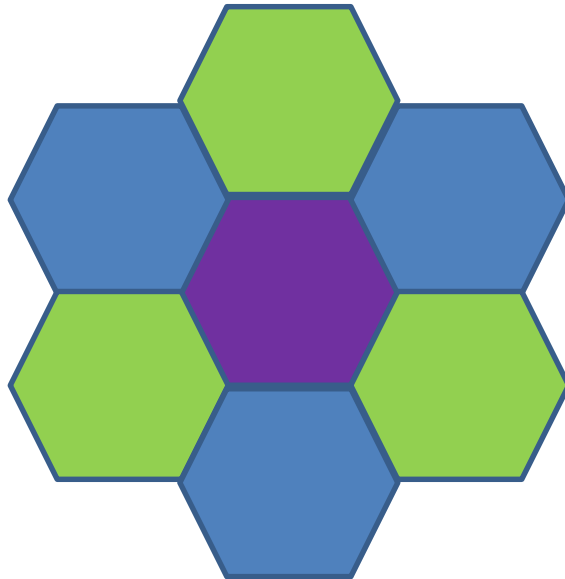
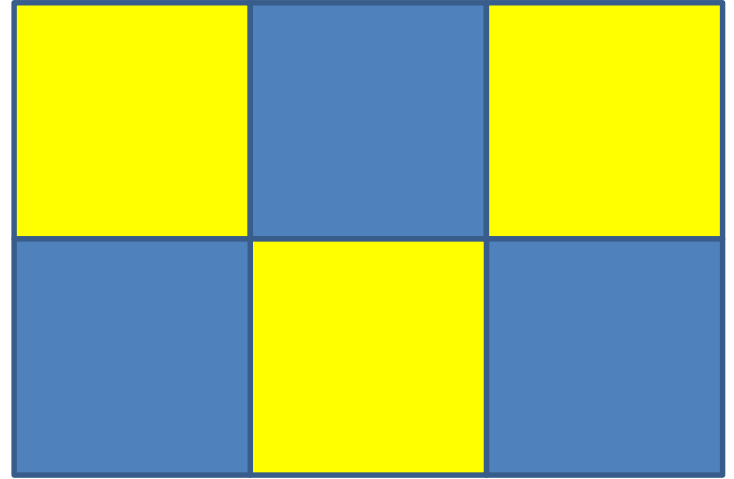
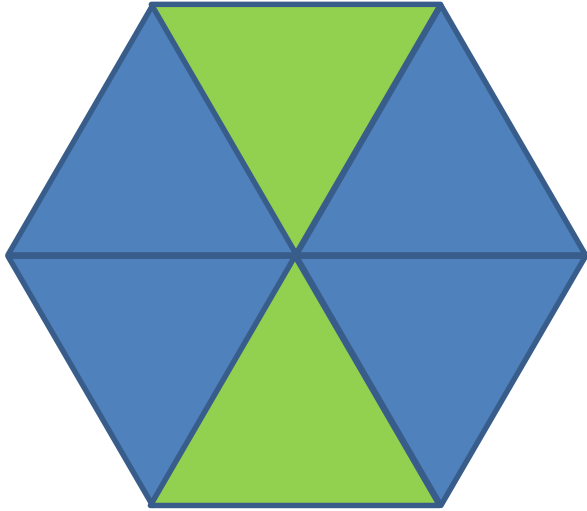
Mosaicos en el arte. Primeros pasos



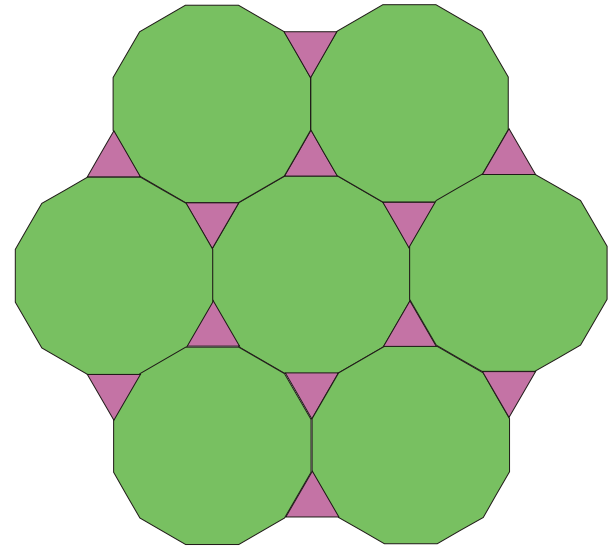
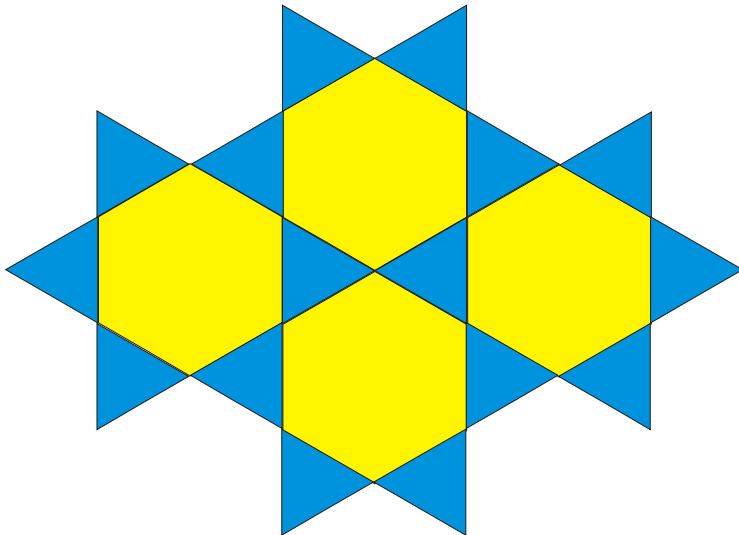
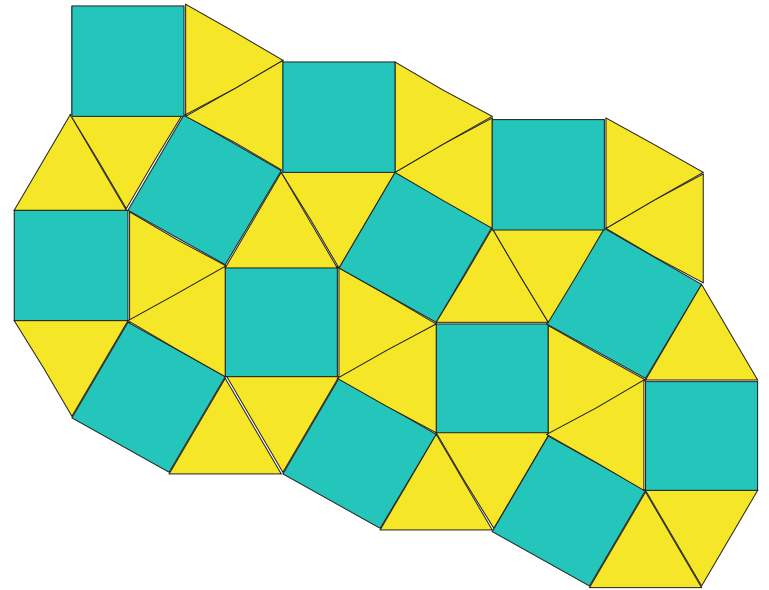
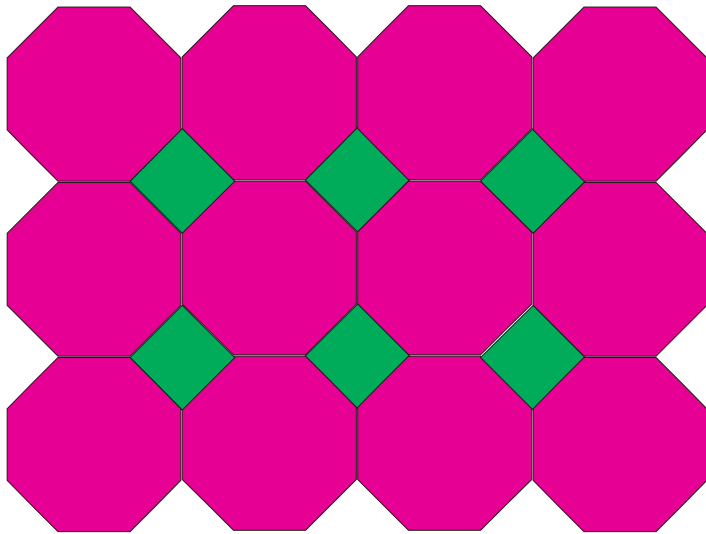
Una perspectiva geométrica



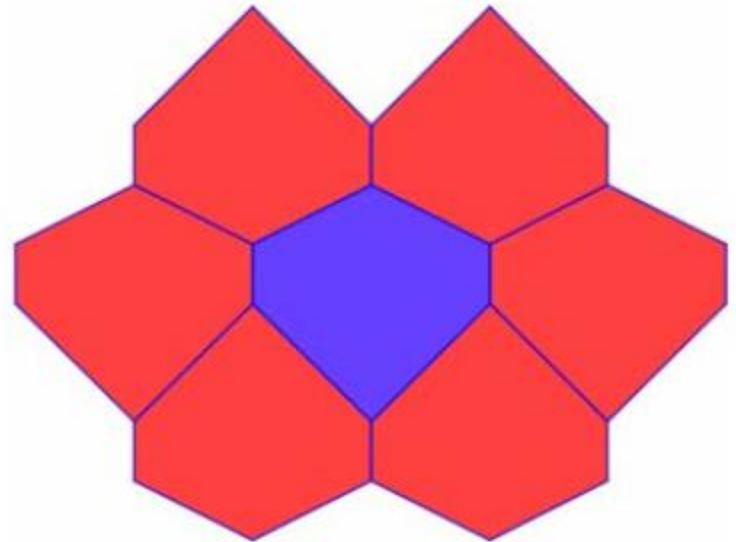
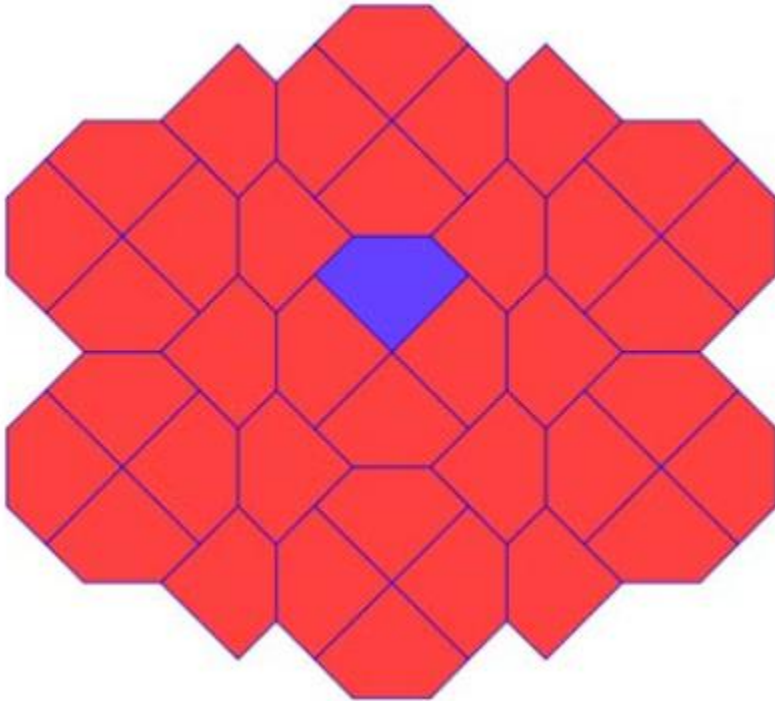
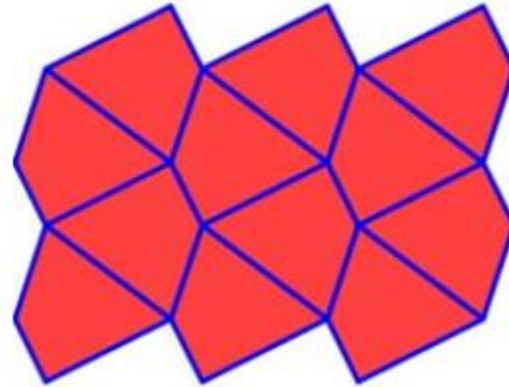
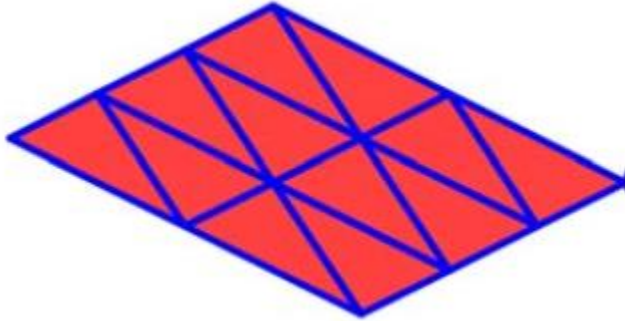
Mosaicos regulares



Mosaicos semirregulares



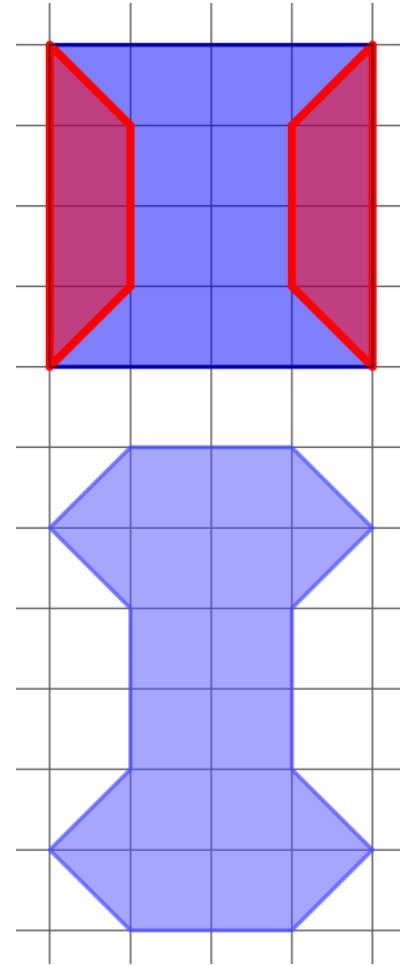
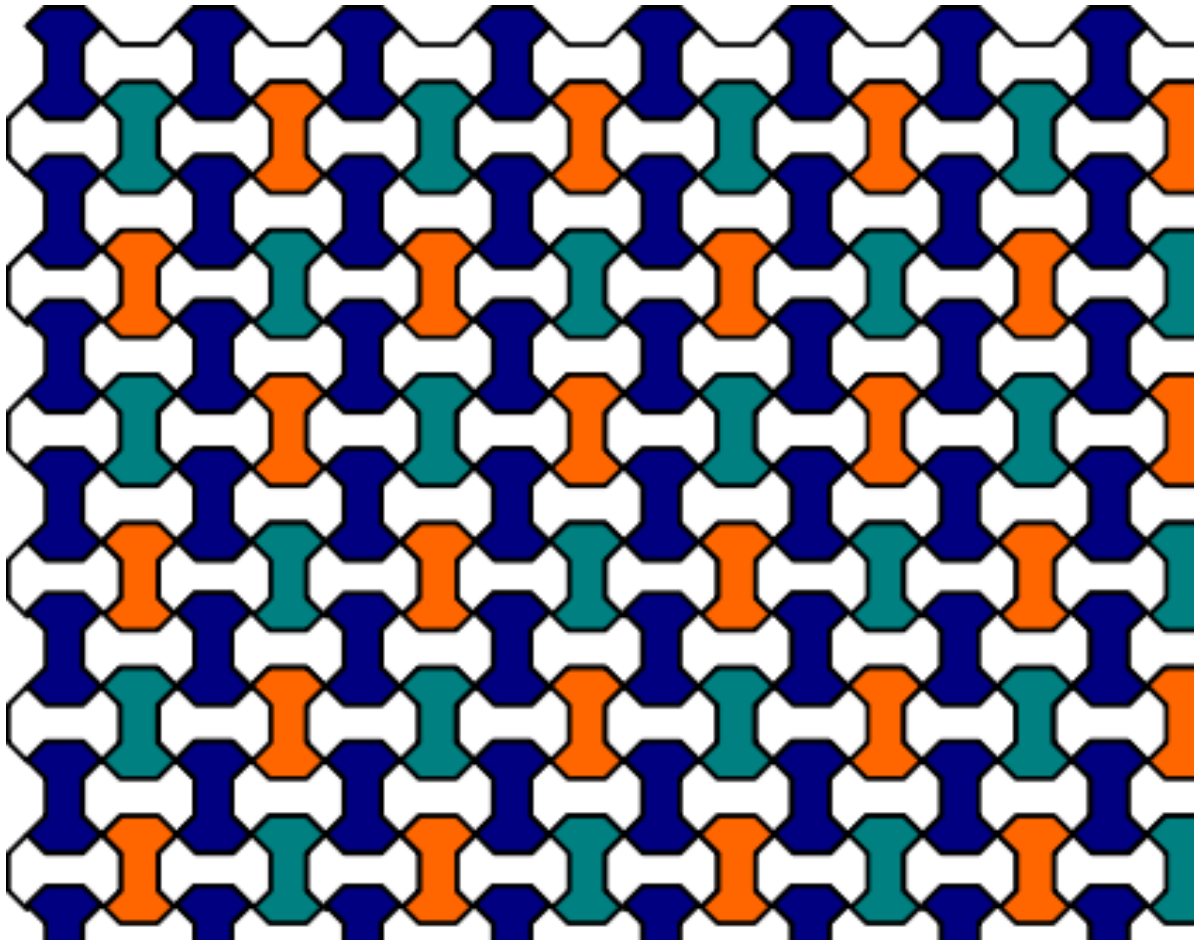
Y muchos más...



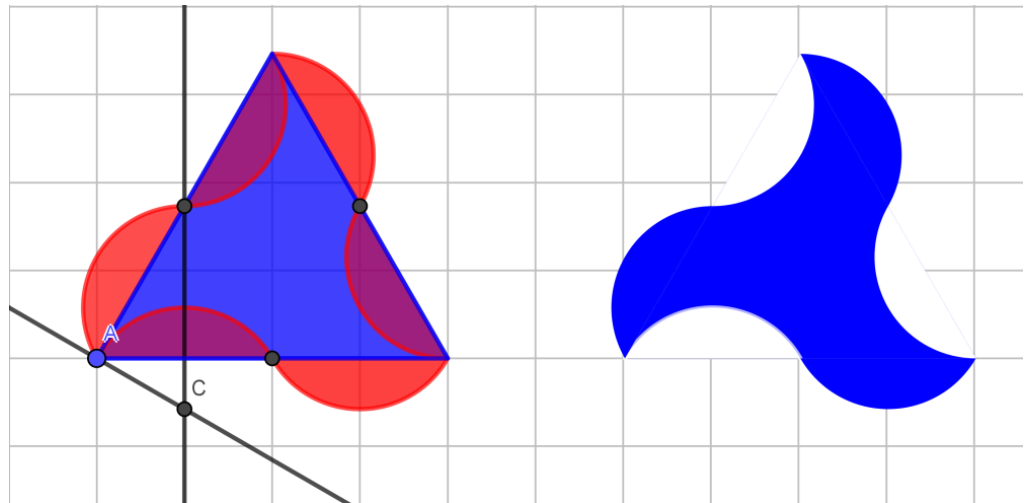
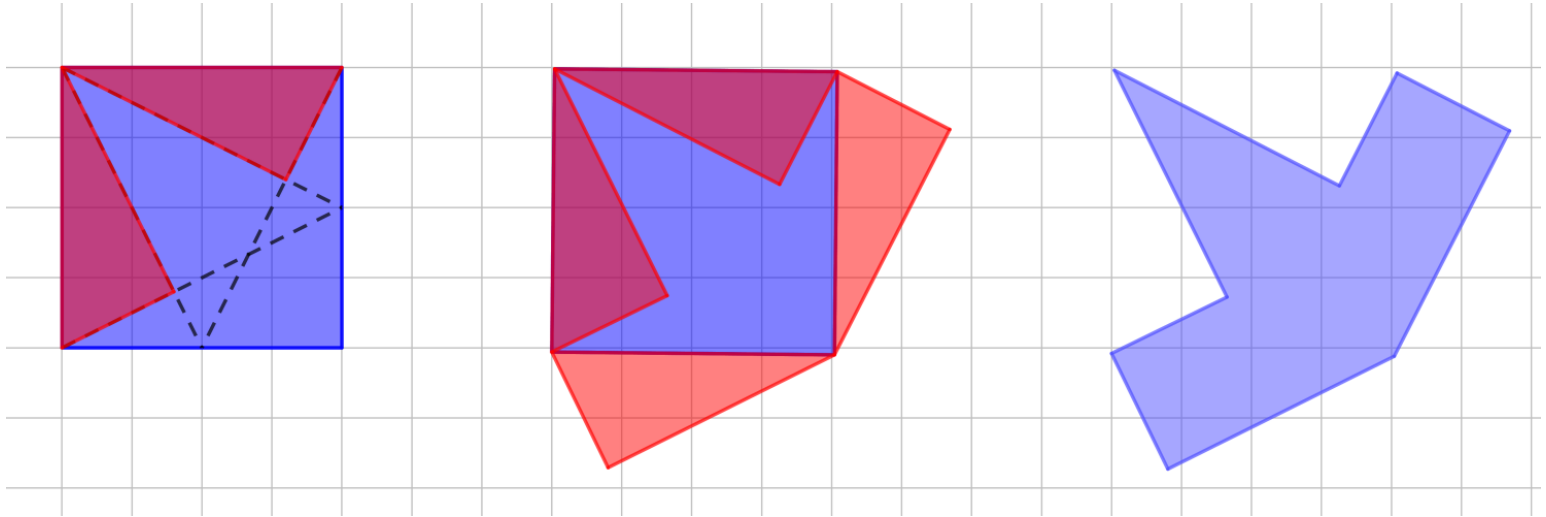
Arte nazarí. Geometría y creatividad



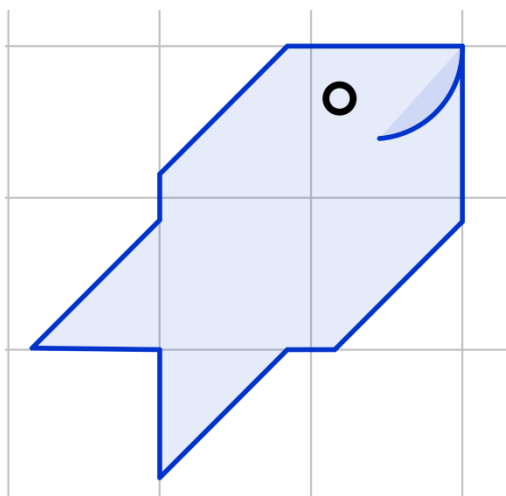
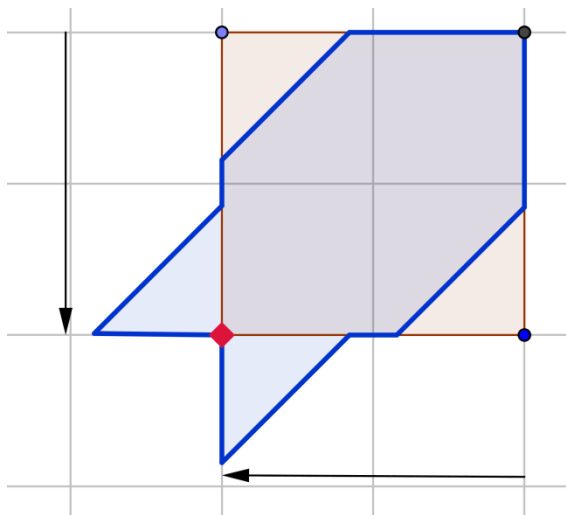
Transformaciones. Teselas



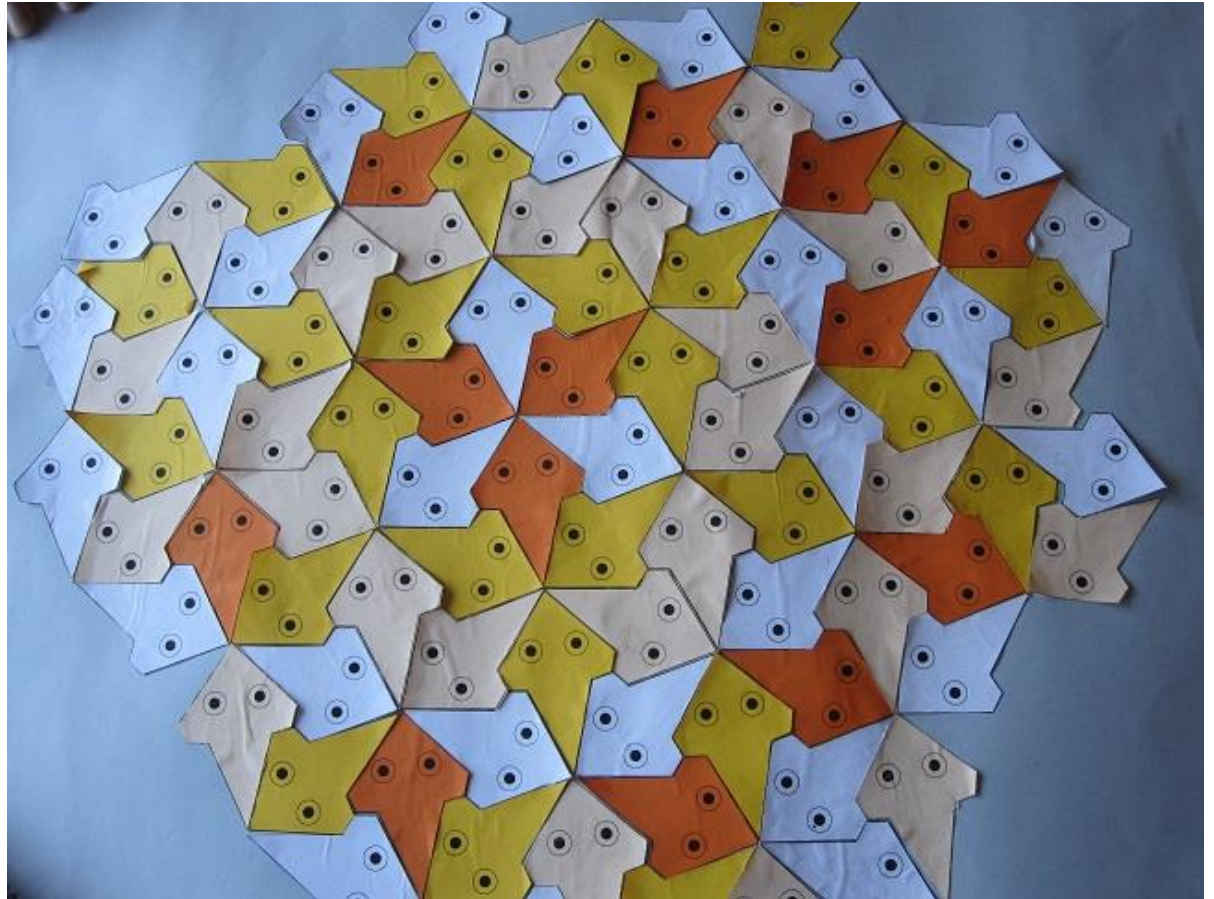
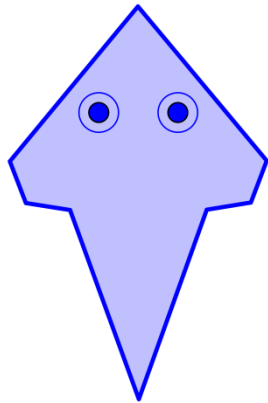
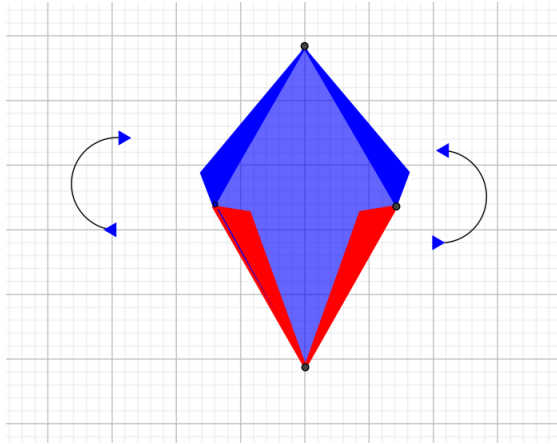
Traslación y giro. La belleza de lo sencillo



Teselas (Grupo Alquerque). Traslación

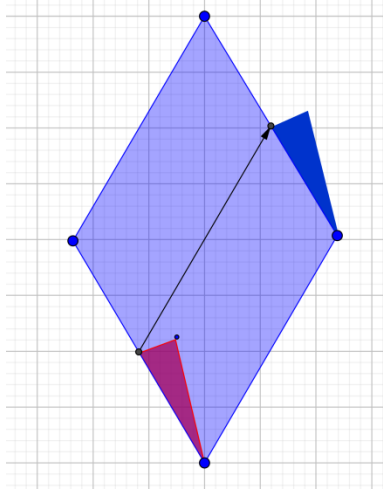


Teselas (Grupo Alquerque). Giro

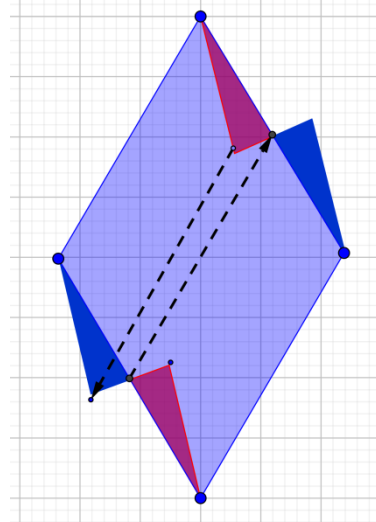


Un paso más: rotación y traslación

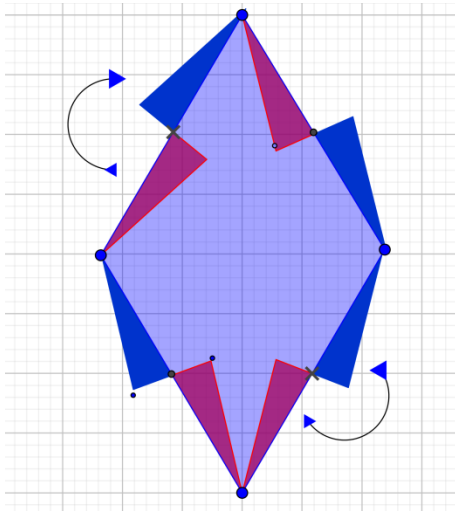
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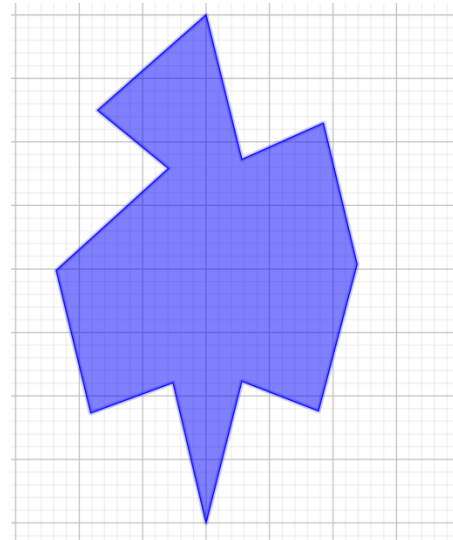
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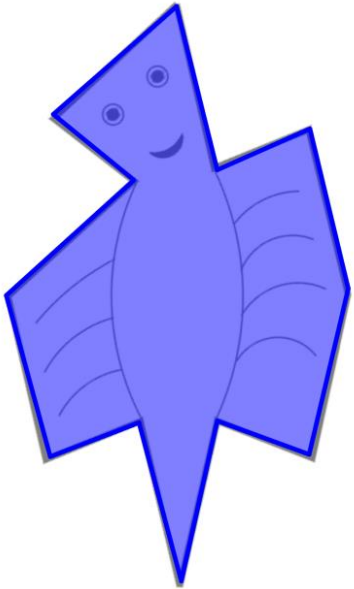
3



4



Resultado: mariposas...

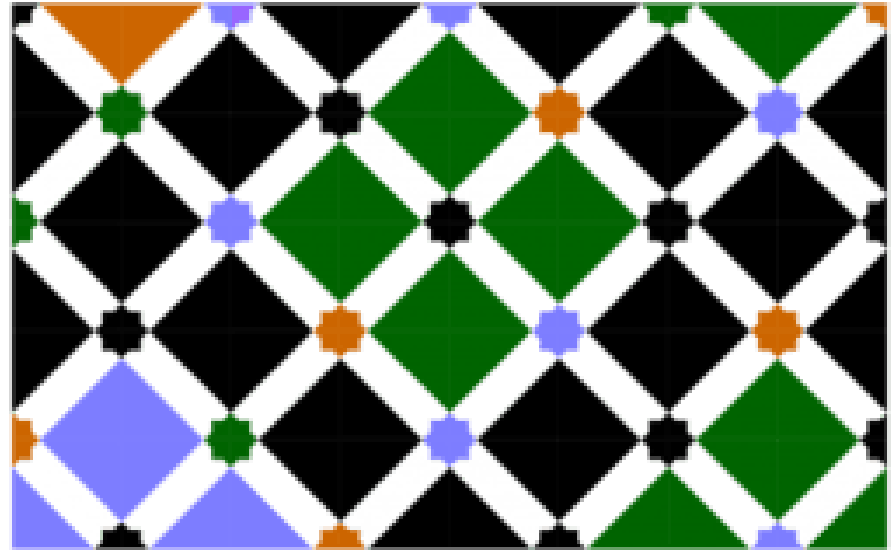


Recursos con GeoGebra



Teselados

Vicente Martín Torres López



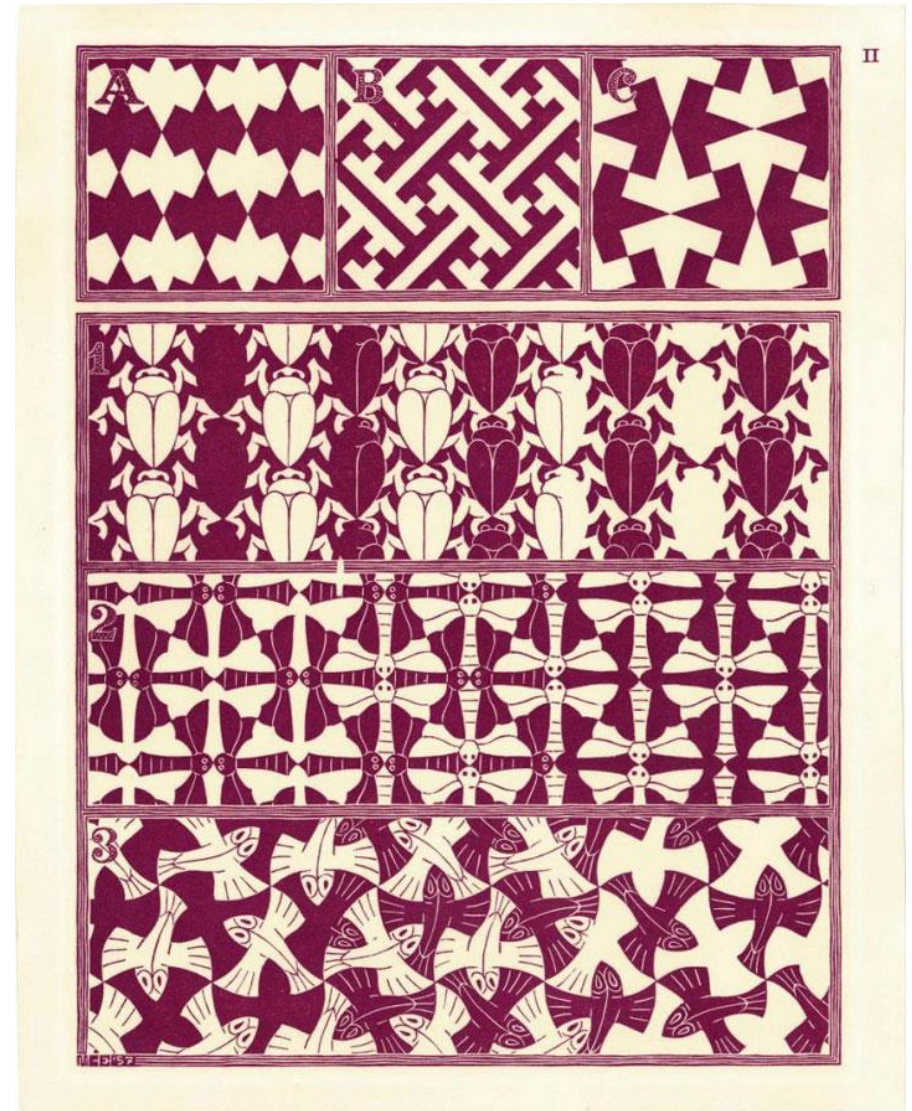
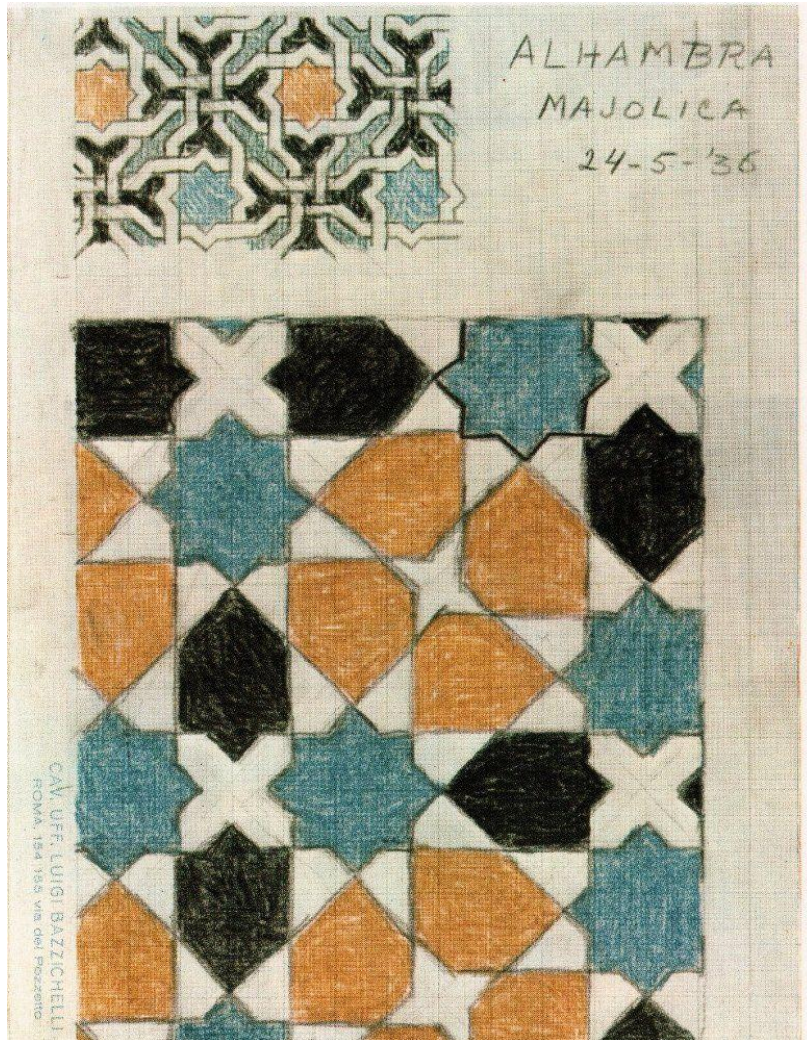
La Alhambra con regla, compás y GeoGebra

José Antonio Mora

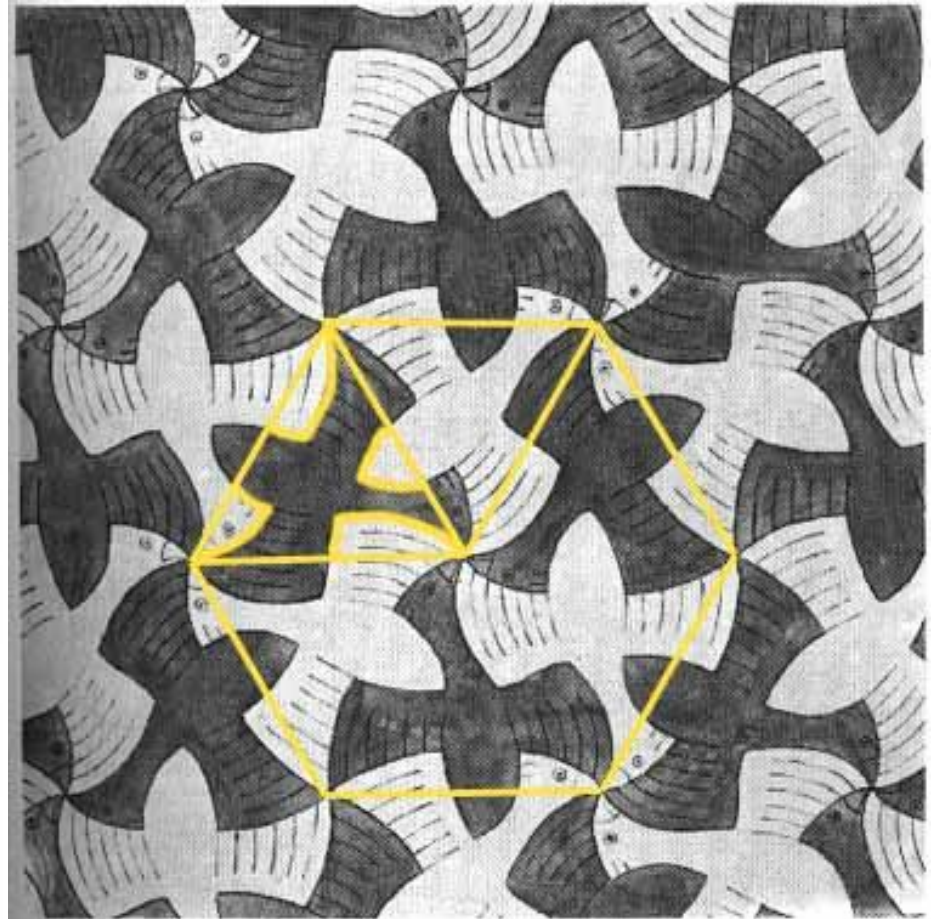
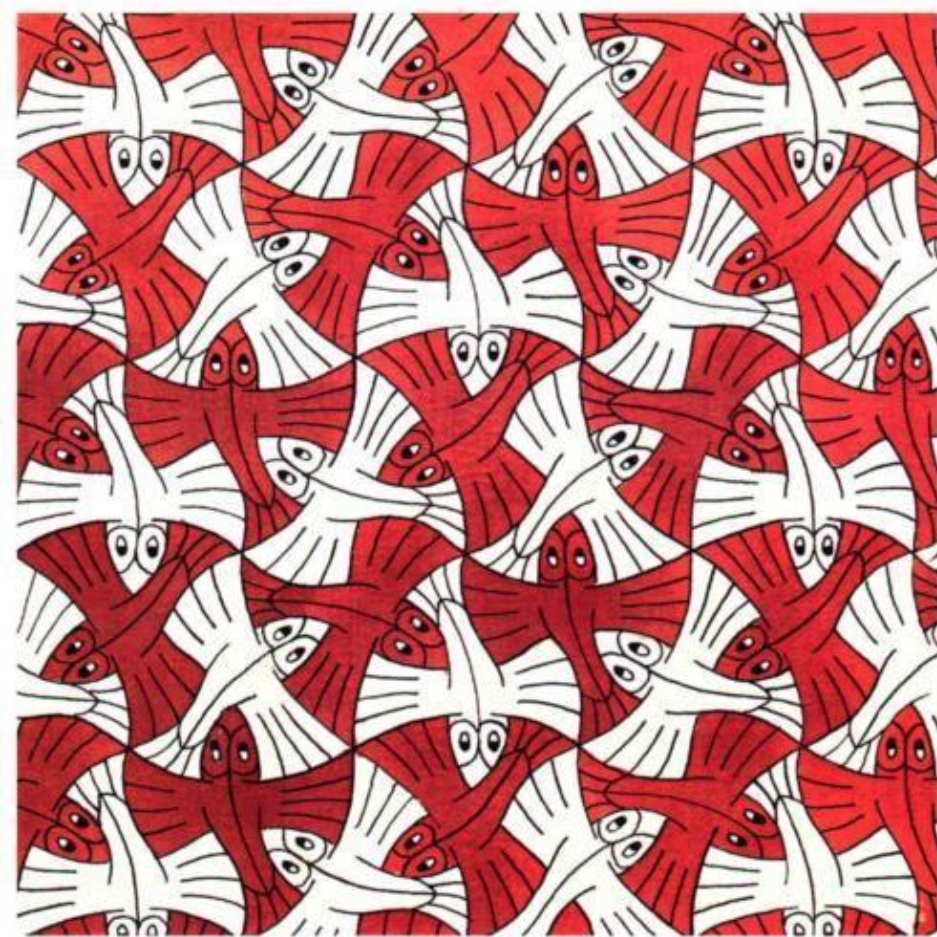
Mosaicos y genialidad: M.C Escher



Escher en la Alhambra



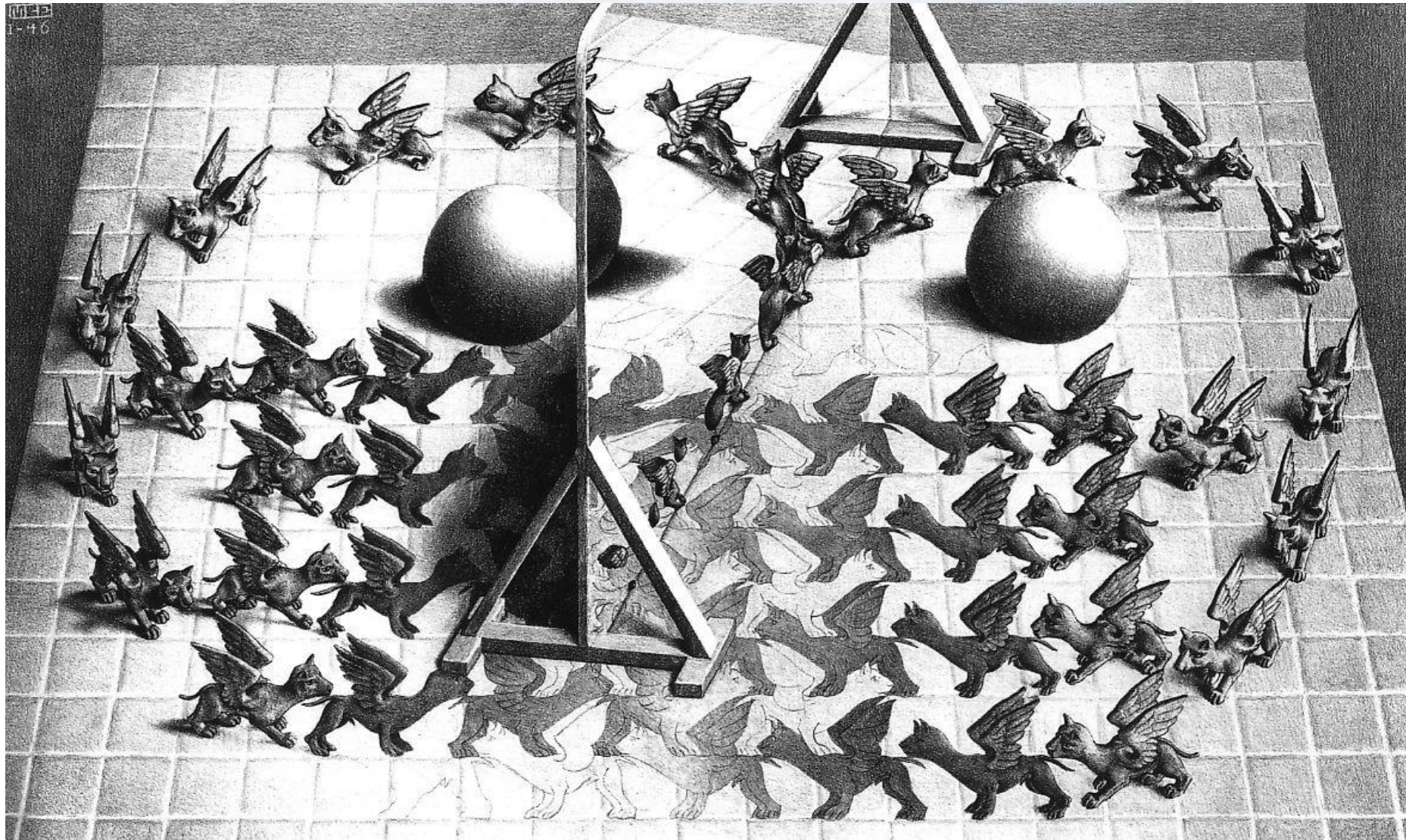
Las teselas “cobran vida”



Dinamismo y cambio



Más allá del plano

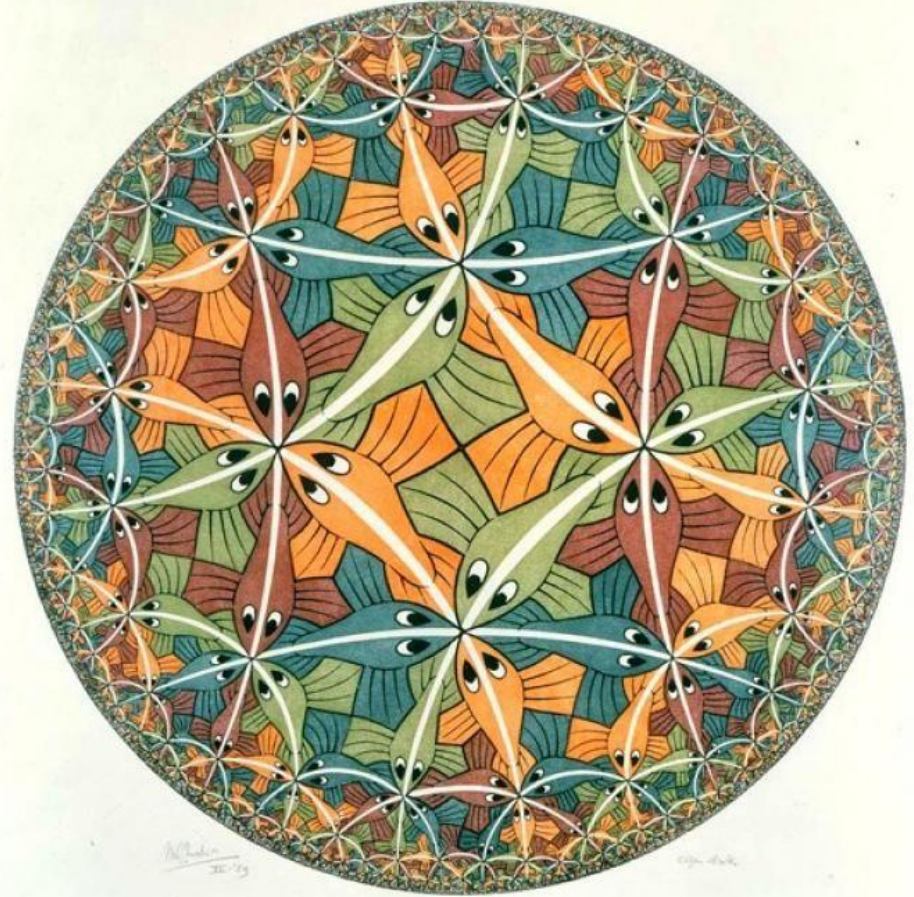
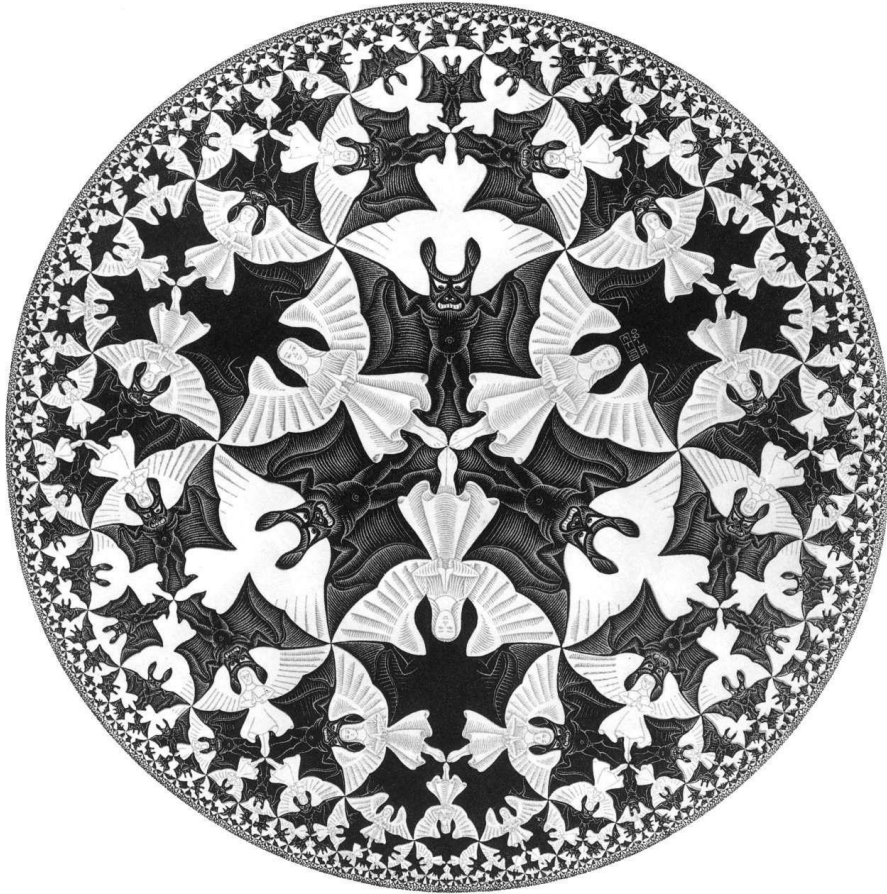


Metamorfosis II (1939 – 1940)

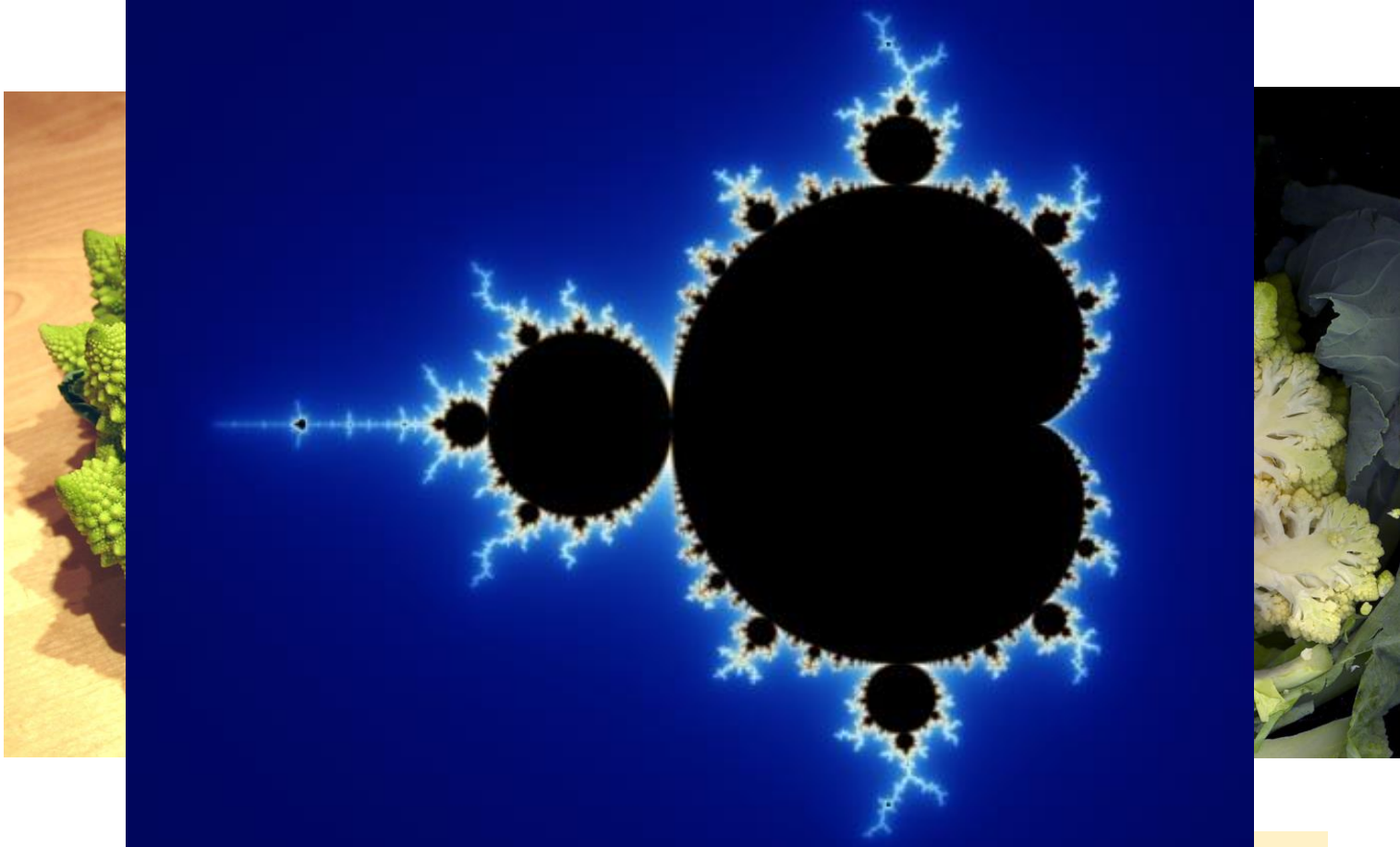


<https://www.youtube.com/watch?v=J7gT-2TJUlg>

Límites: Explorando lo infinito



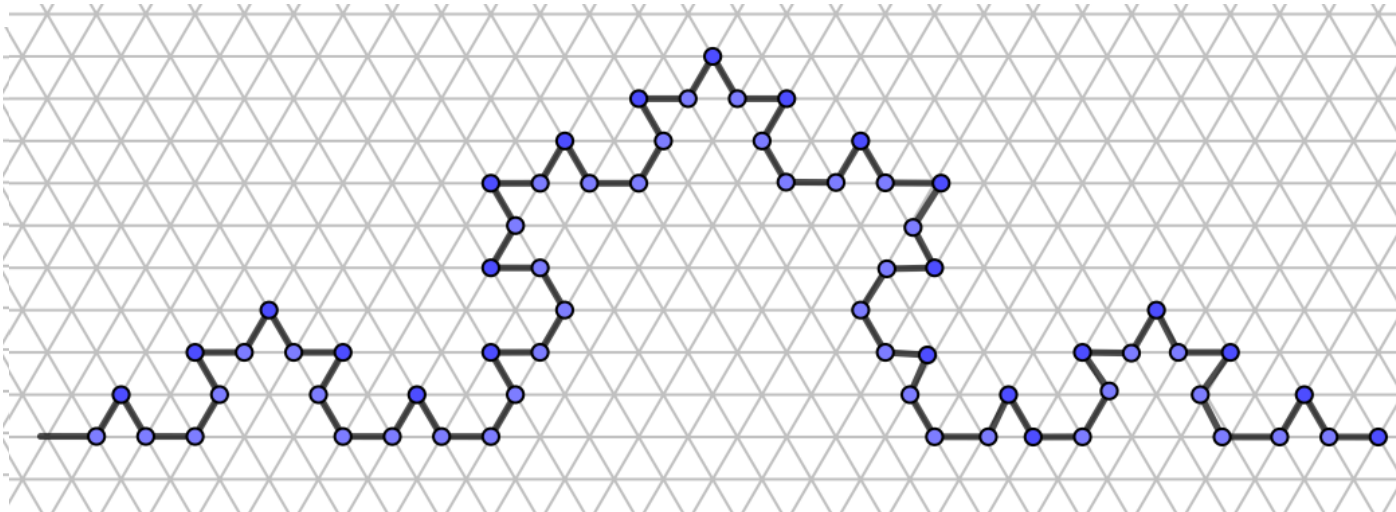
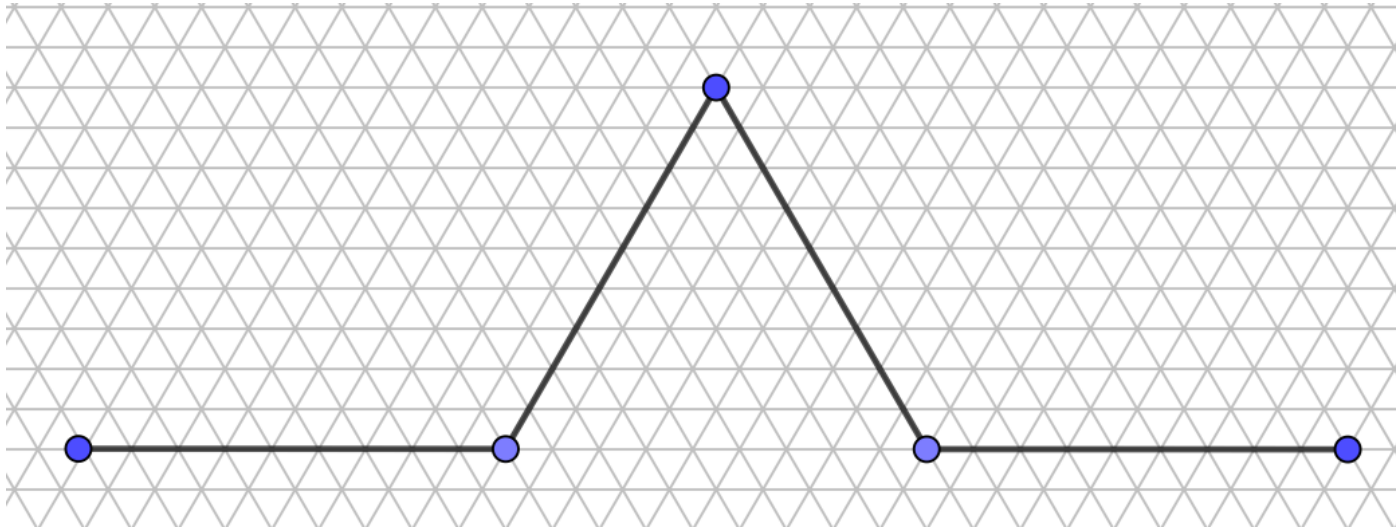
Fractales. ¿Una rareza matemática?



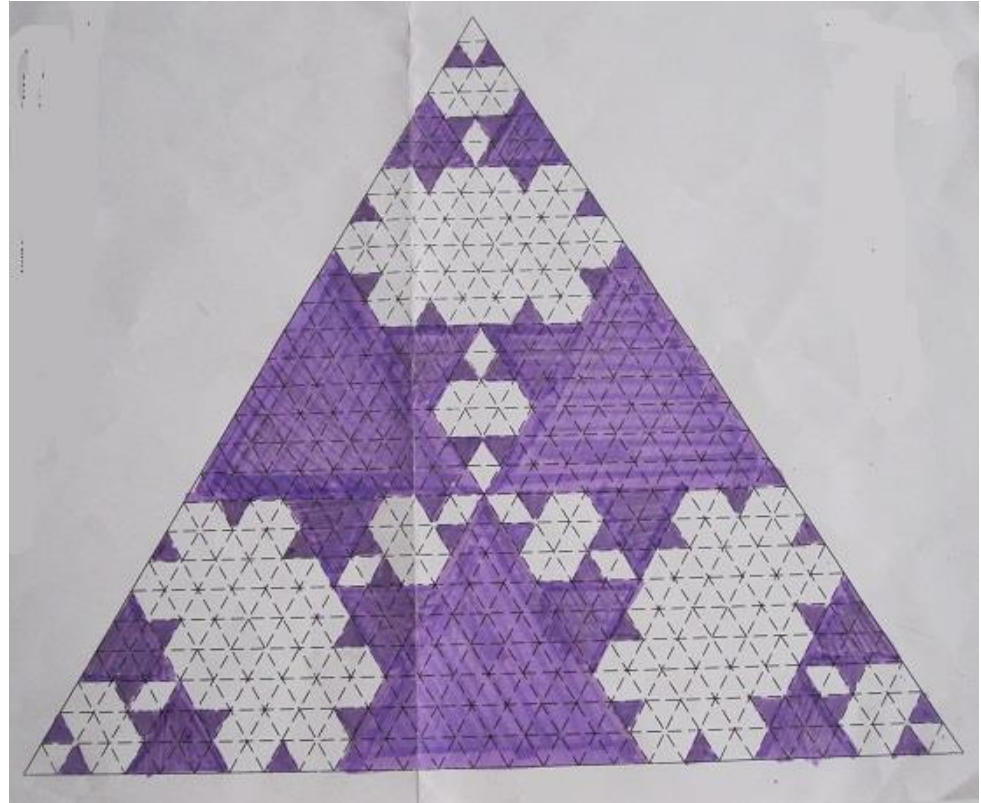
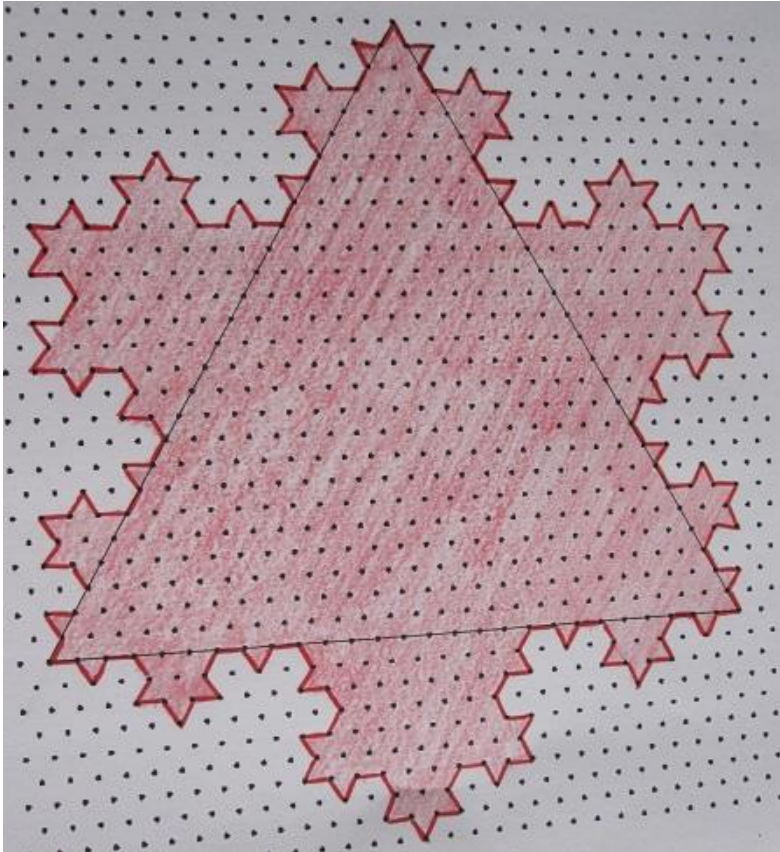
Las nubes no son esferas, las montañas no son conos, las costas no son círculos y las cortezas de los árboles no son lisas, ni los relámpagos viajan en una línea recta.

BENOÎT MANDELBROT, *Introduction to The Fractal Geometry of Natur*

Proporciones e infinito



Copo/Anticopo. Tramas

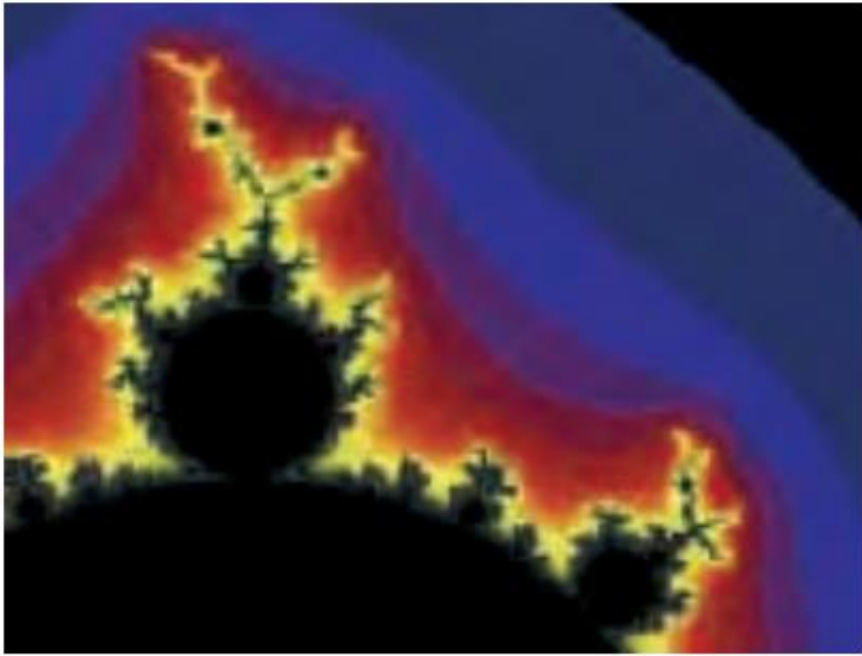


Fractales como inspiración

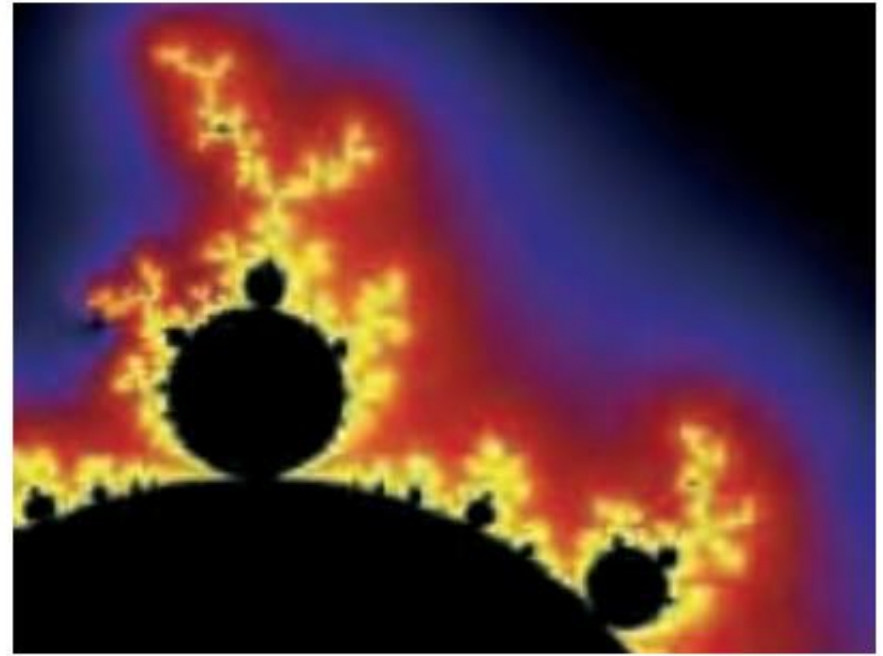


La tecnología al servicio del arte.

Algoritmos de color

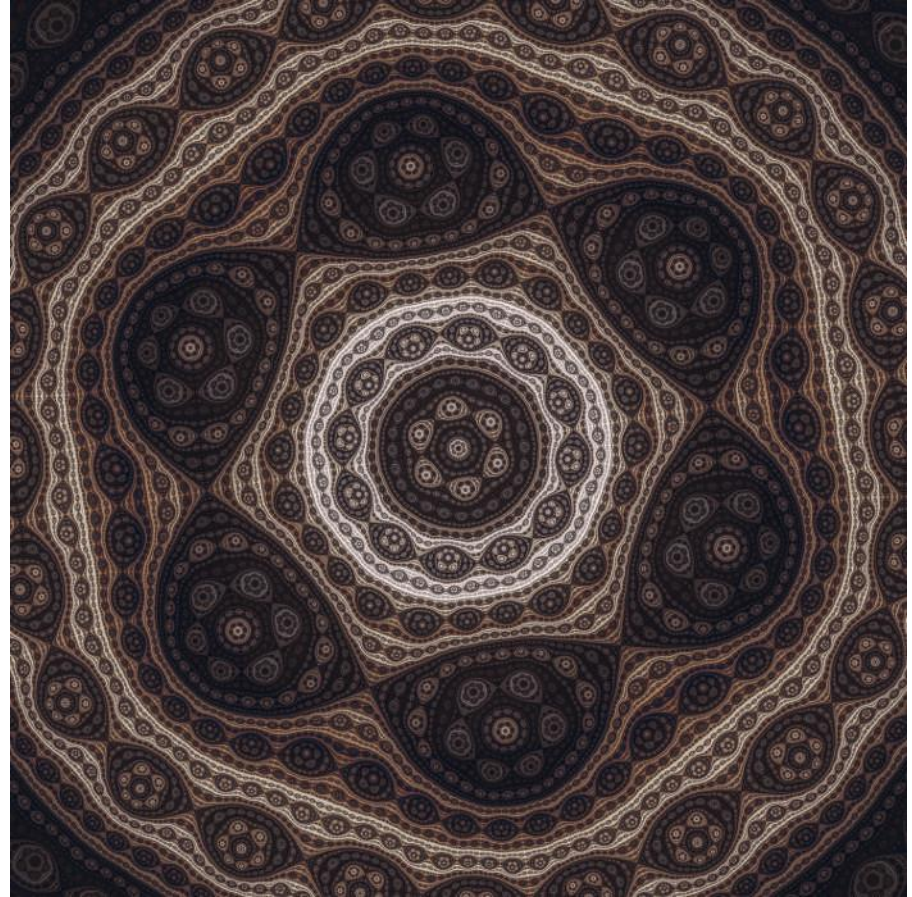


Algoritmo discreto



Algoritmo continuo

Arte(?) fractal

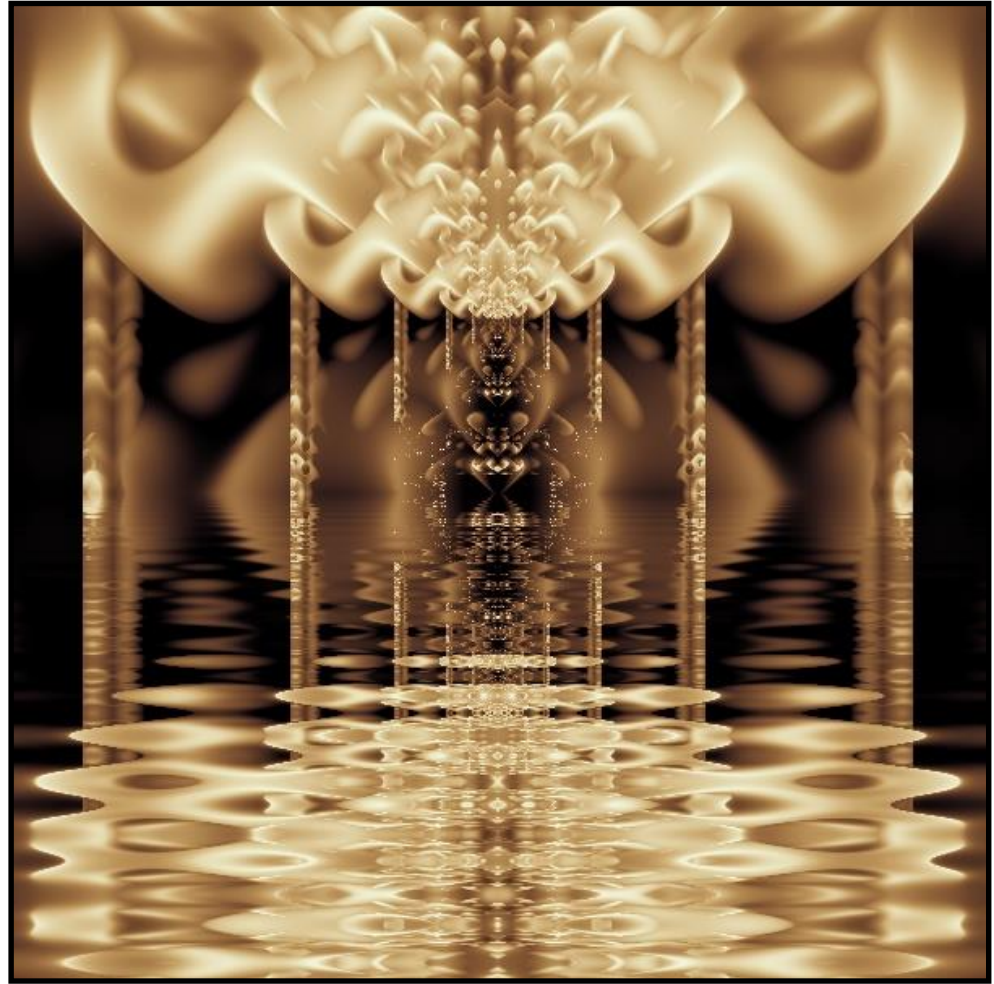
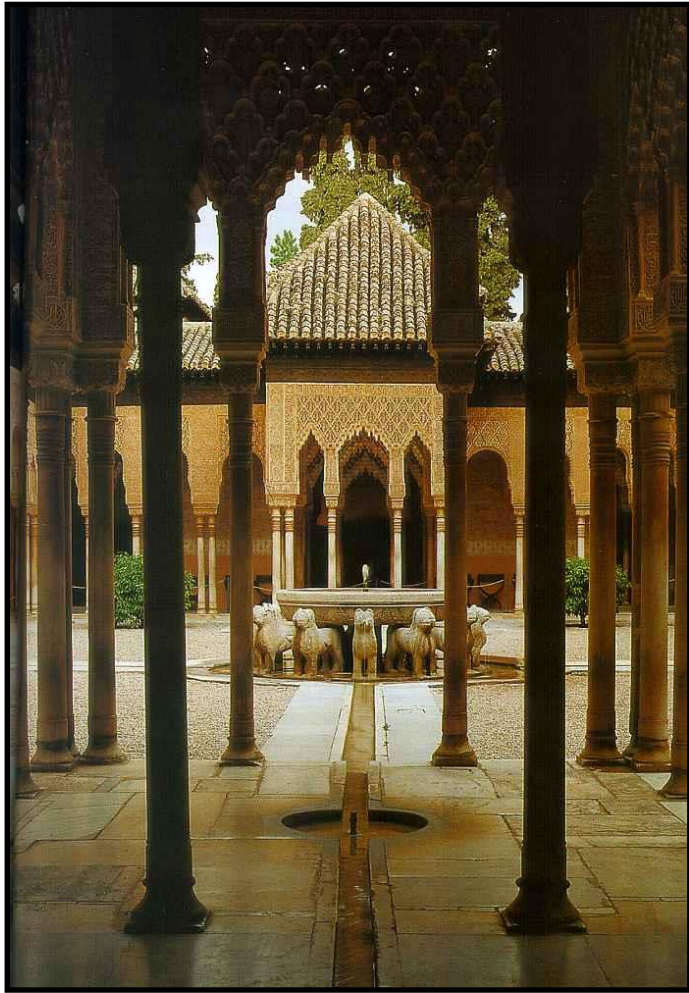


Samuel Monnier



"El arrecife de coral". Linda Allison

Interpretando la realidad





Texturas. Fractales multicapa



«Mis ideas están basadas en mi asombro y admiración por las leyes contenidas en el mundo que nos rodea. Quien se maravilla de algo, toma conciencia de algo maravilloso.»

M. C. Escher

MUCHAS GRACIAS

juliortab@gmail.com