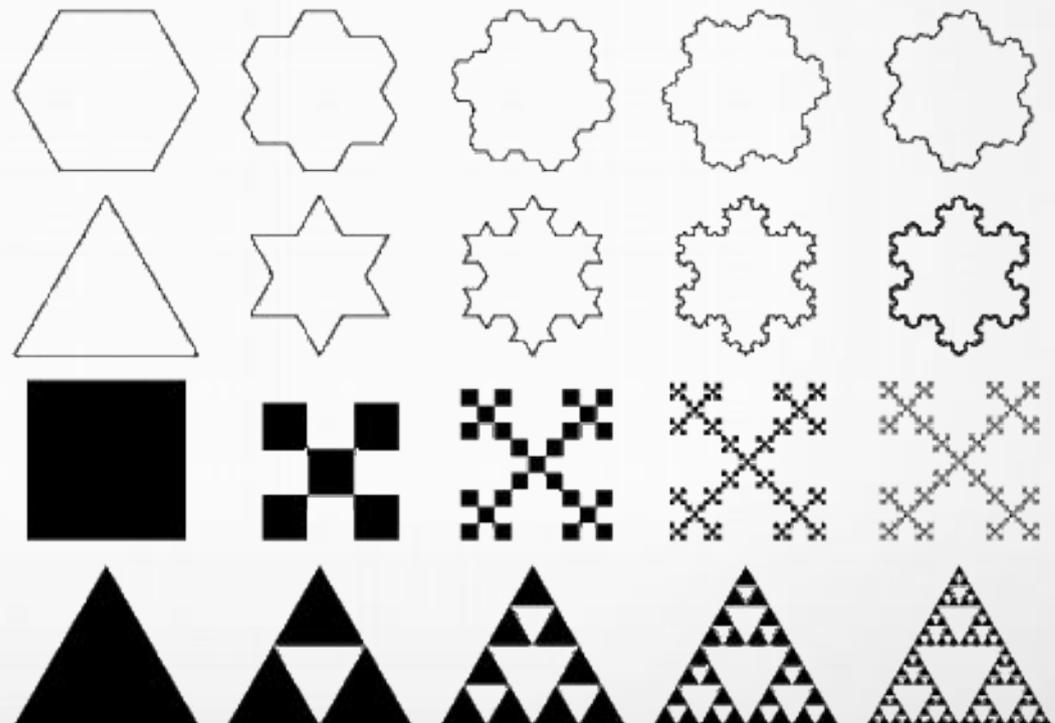
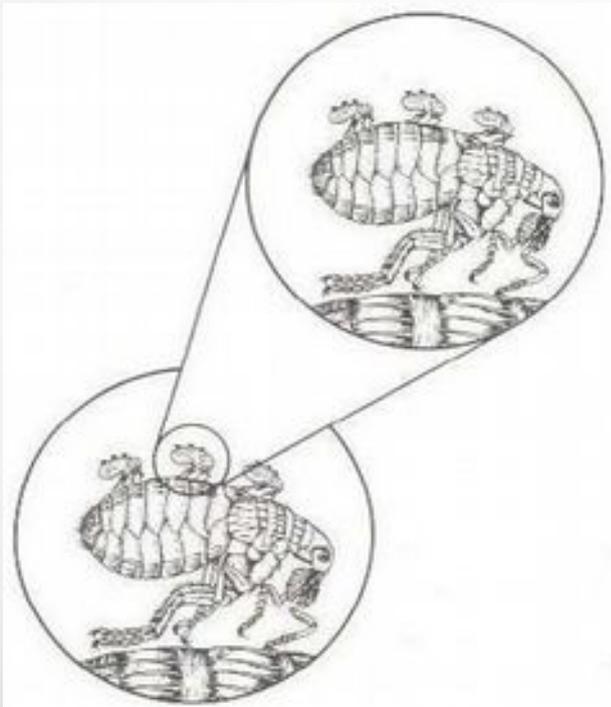


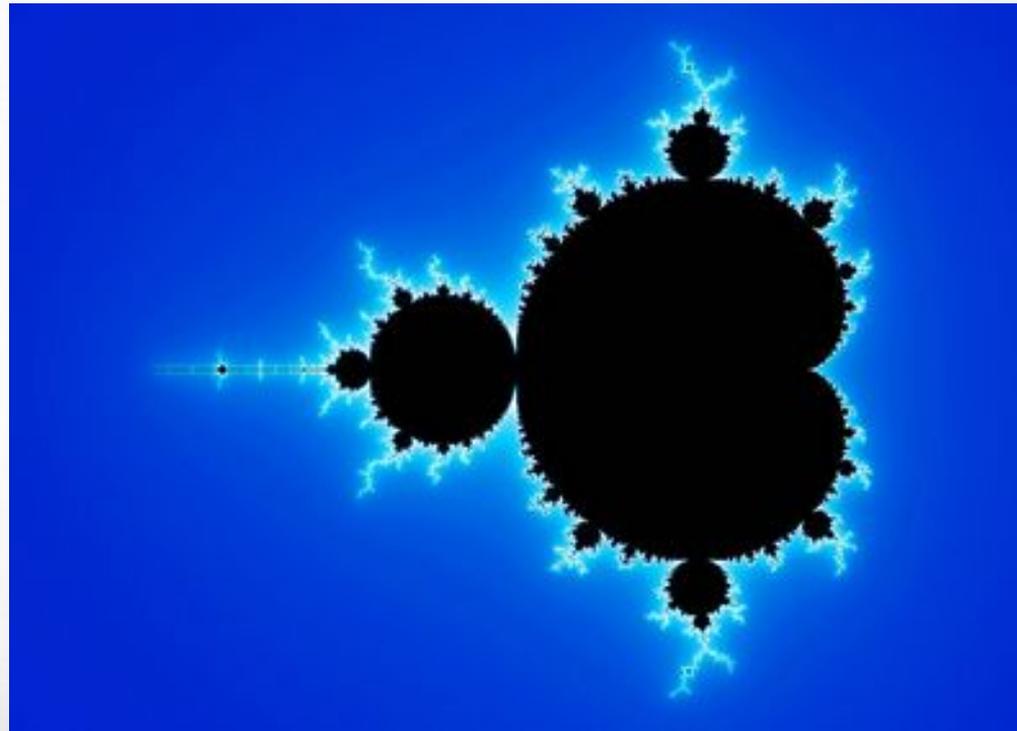
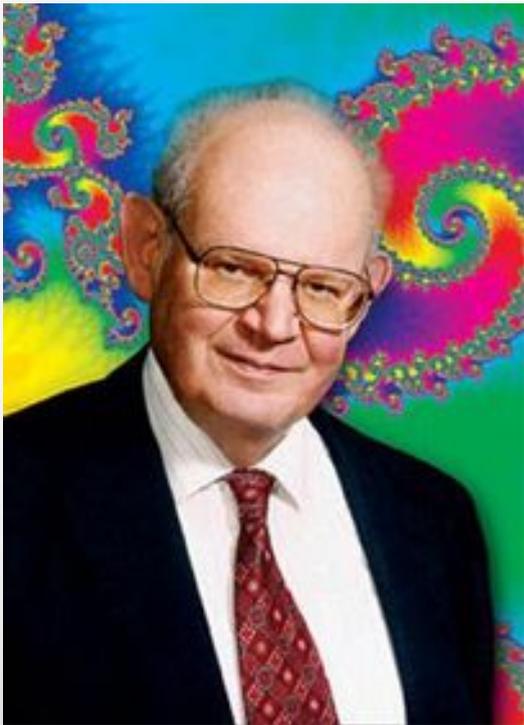
# Frattali

- Un frattale è un oggetto che mostra una **invarianza di scala**, ovvero ha la stessa struttura a tutte le scale.



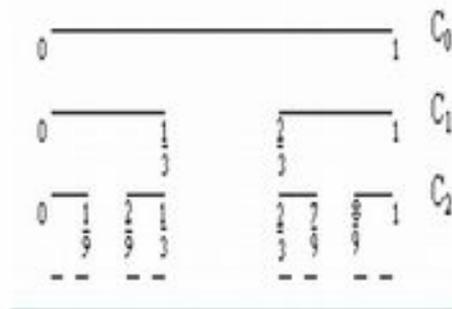
# Frattali

- Il termine frattale fu coniato da Benoît Mandelbrot e ha origine nel termine latino fractus, poichè la dimensione di un frattale non è intera.



# Frattali

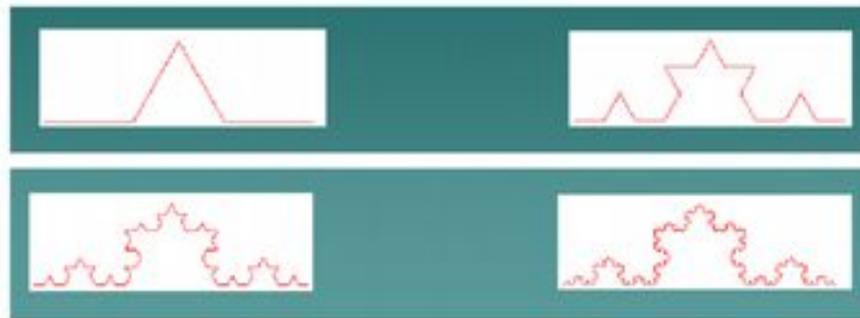
- Dimensione frattale della Polvere di Cantor



N	$\epsilon$	Iterazione
1	1	0
2	1/3	1
$2^2$	$(1/3)^2$	2
$2^n$	$(1/3)^n$	n

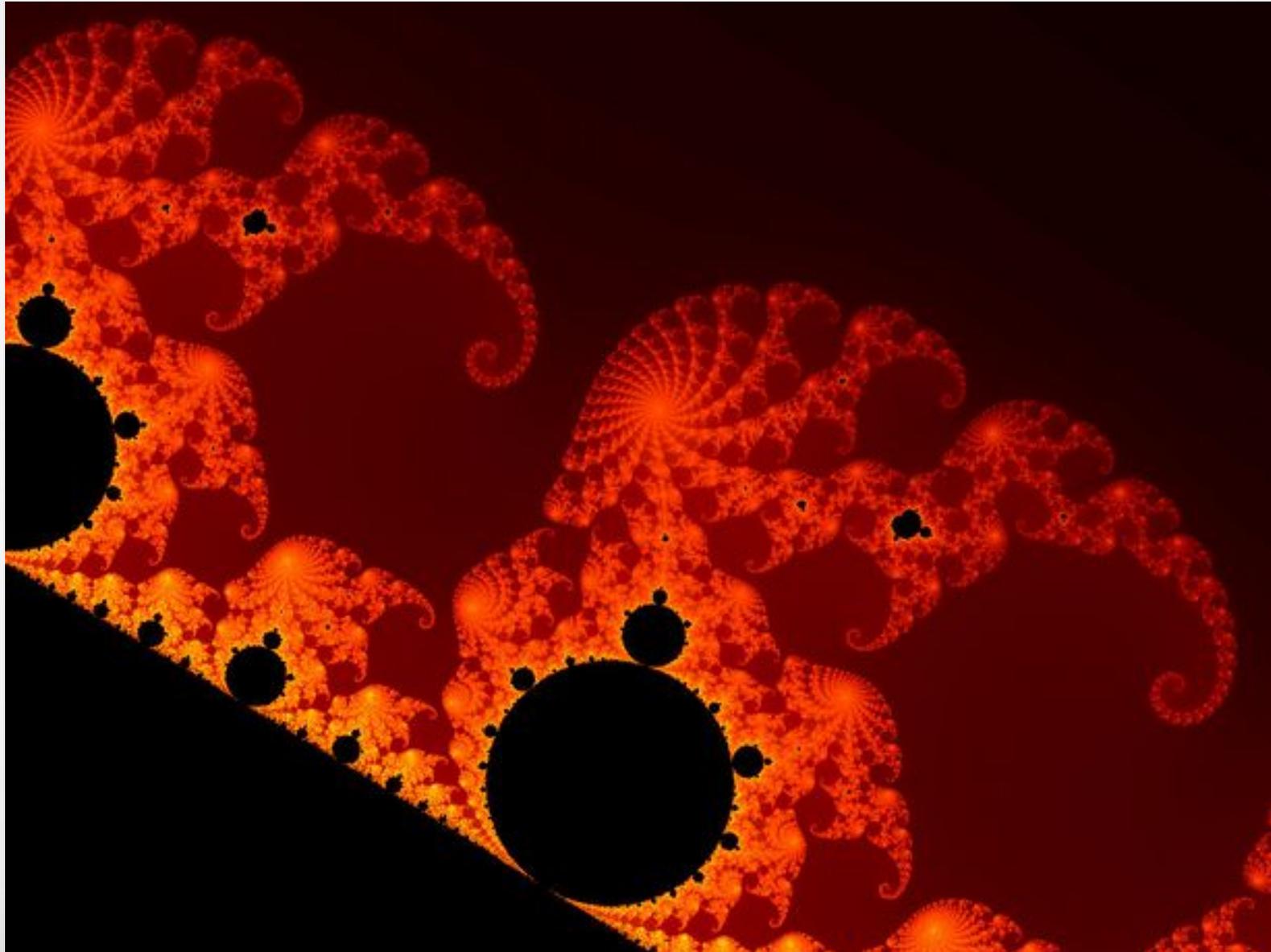
$$D_F = \lim_{\epsilon \rightarrow 0} \frac{\ln(2)^n}{\ln(3)^n} = 0.63..$$

- Dimensione frattale della Curva di Kock

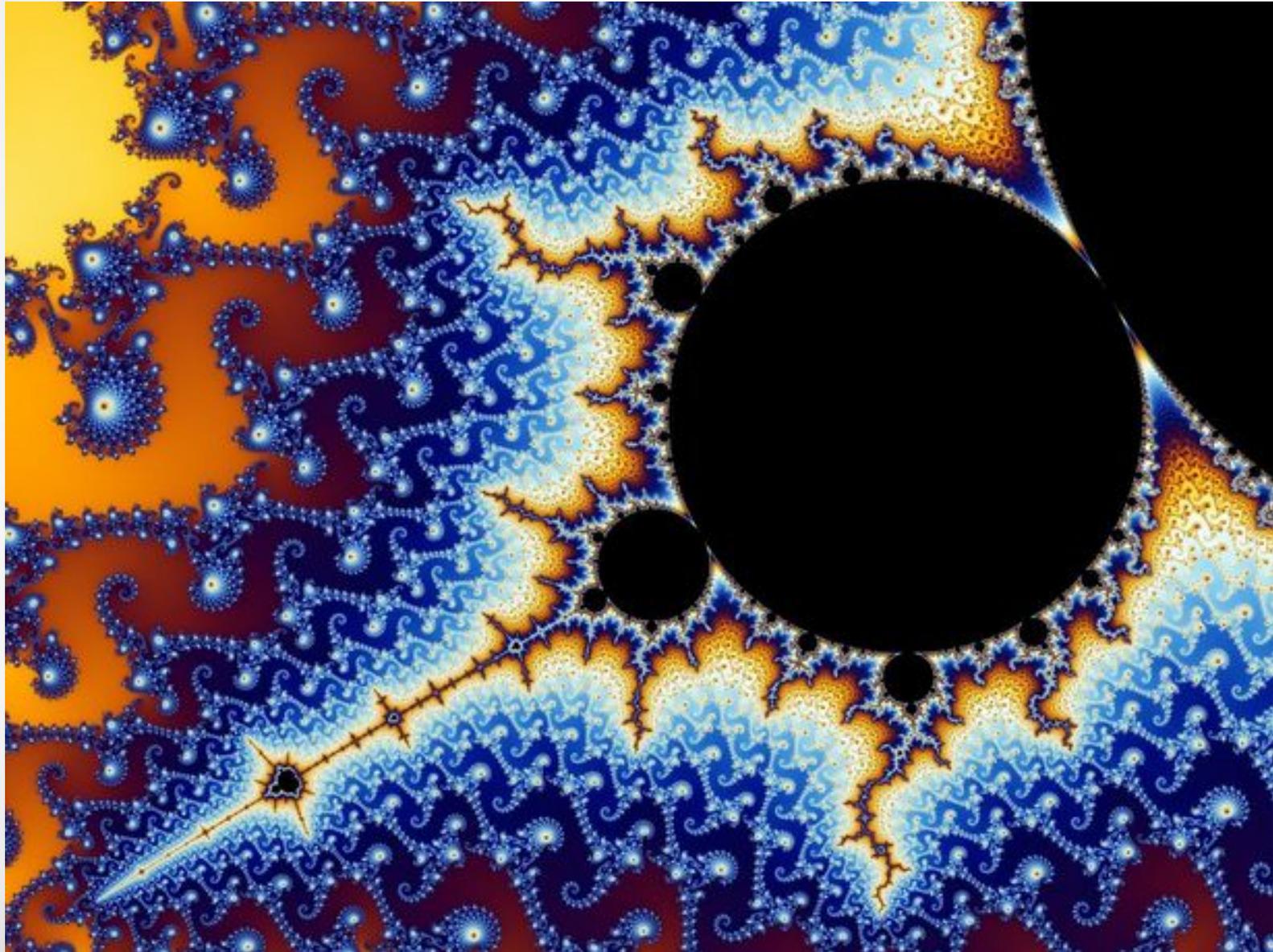


$$D_F = \lim_{\epsilon \rightarrow 0} \frac{\ln 4}{\ln 3} = 1.26..$$

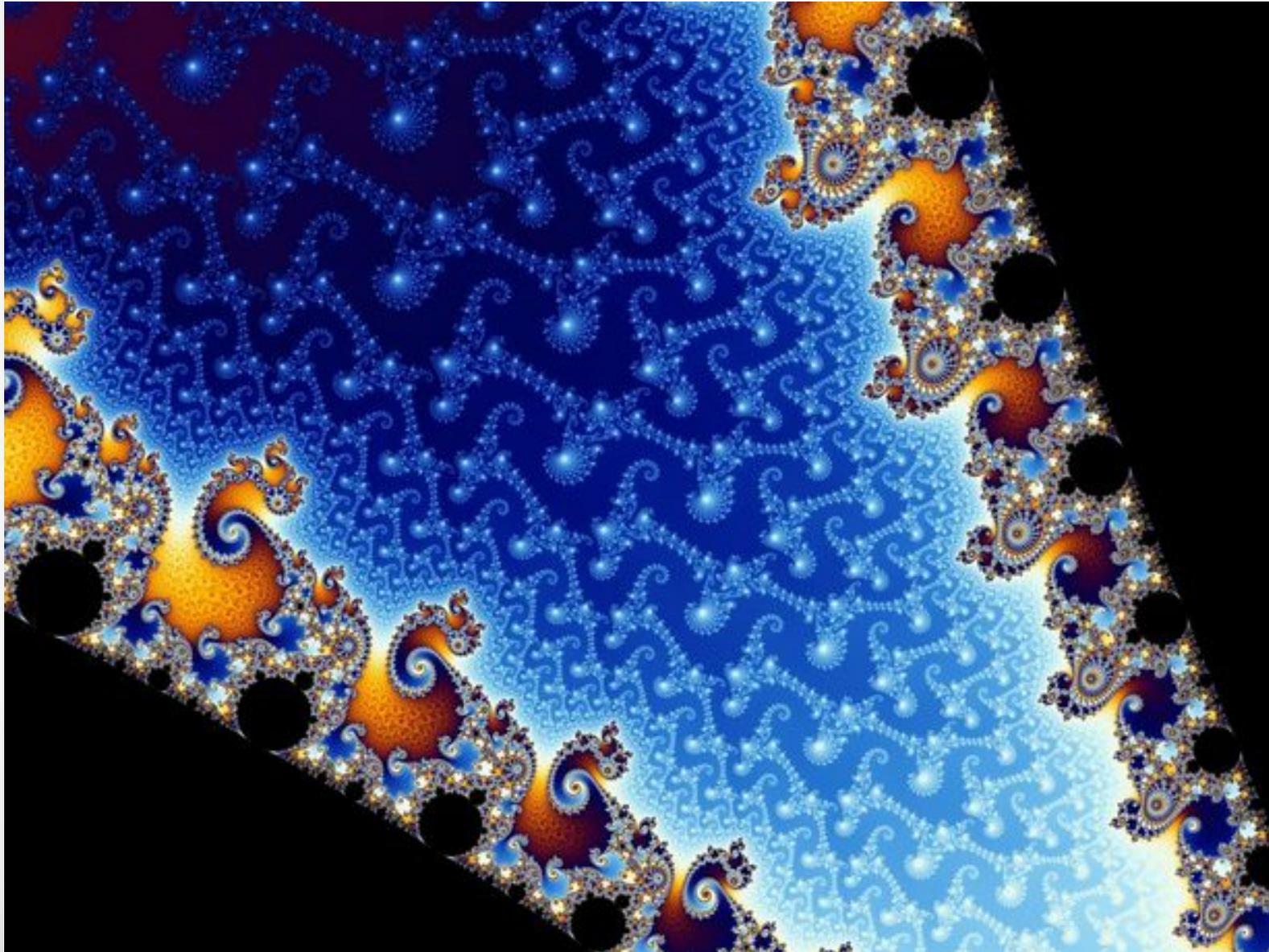
# Frattali



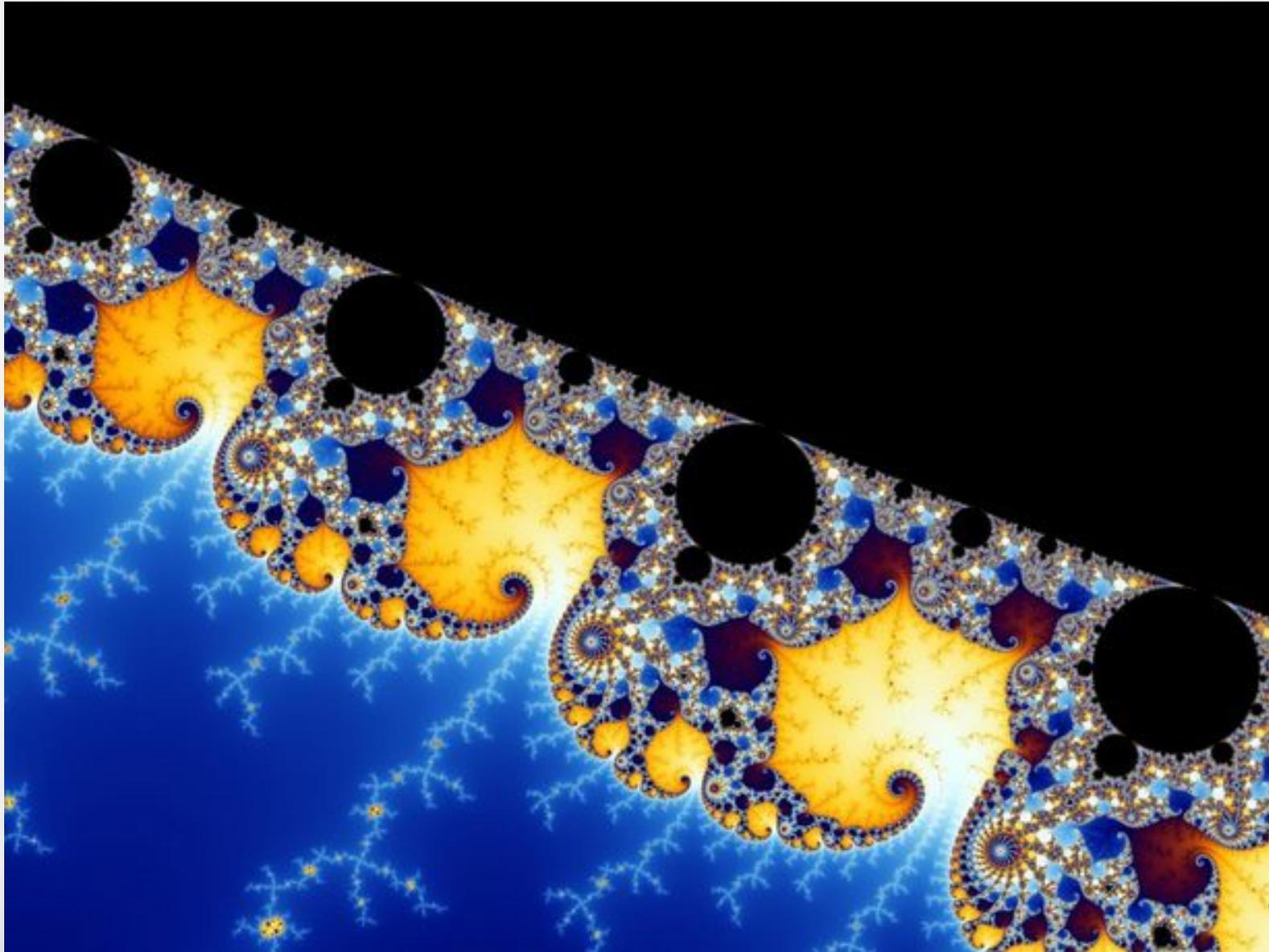
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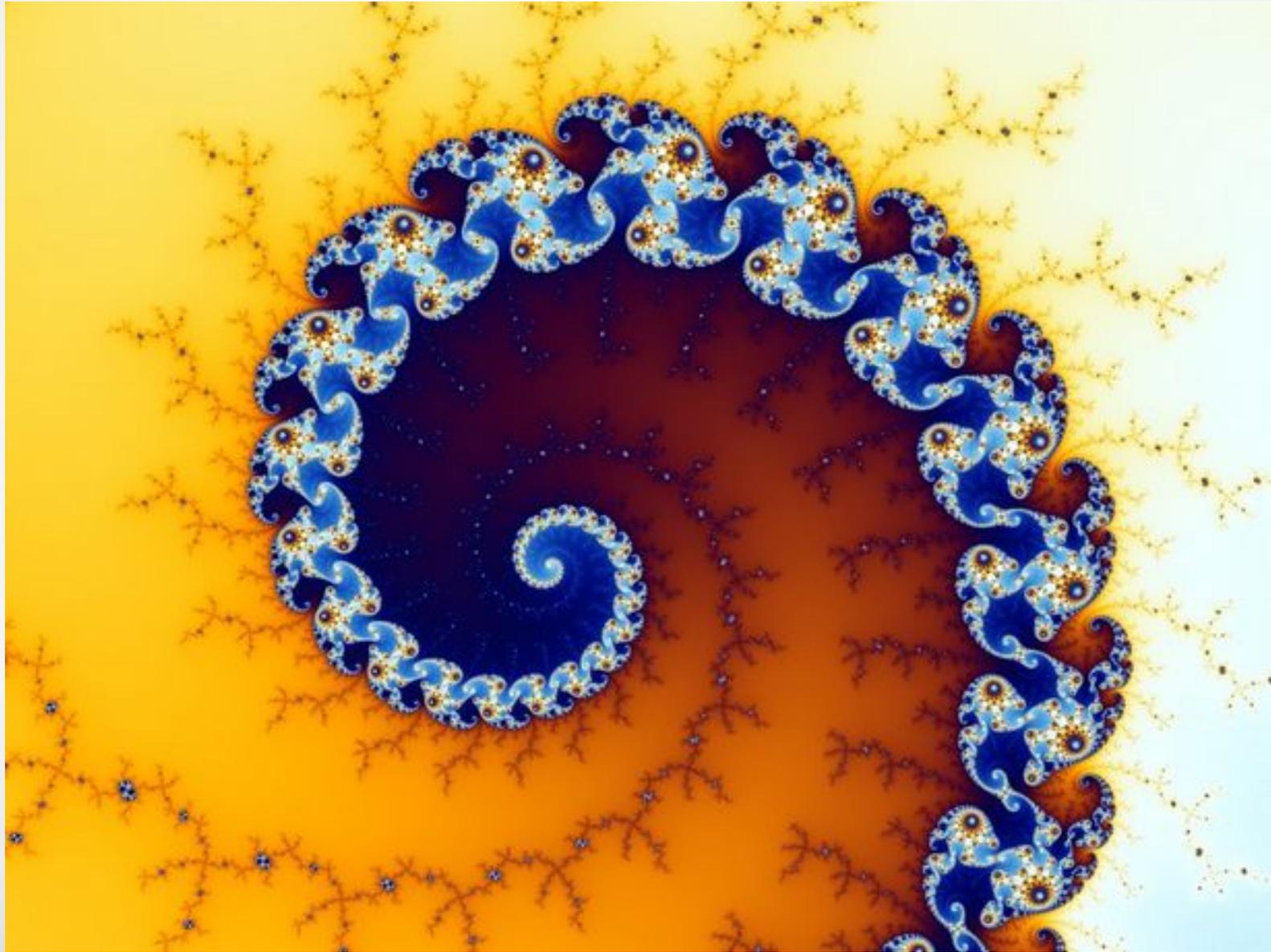
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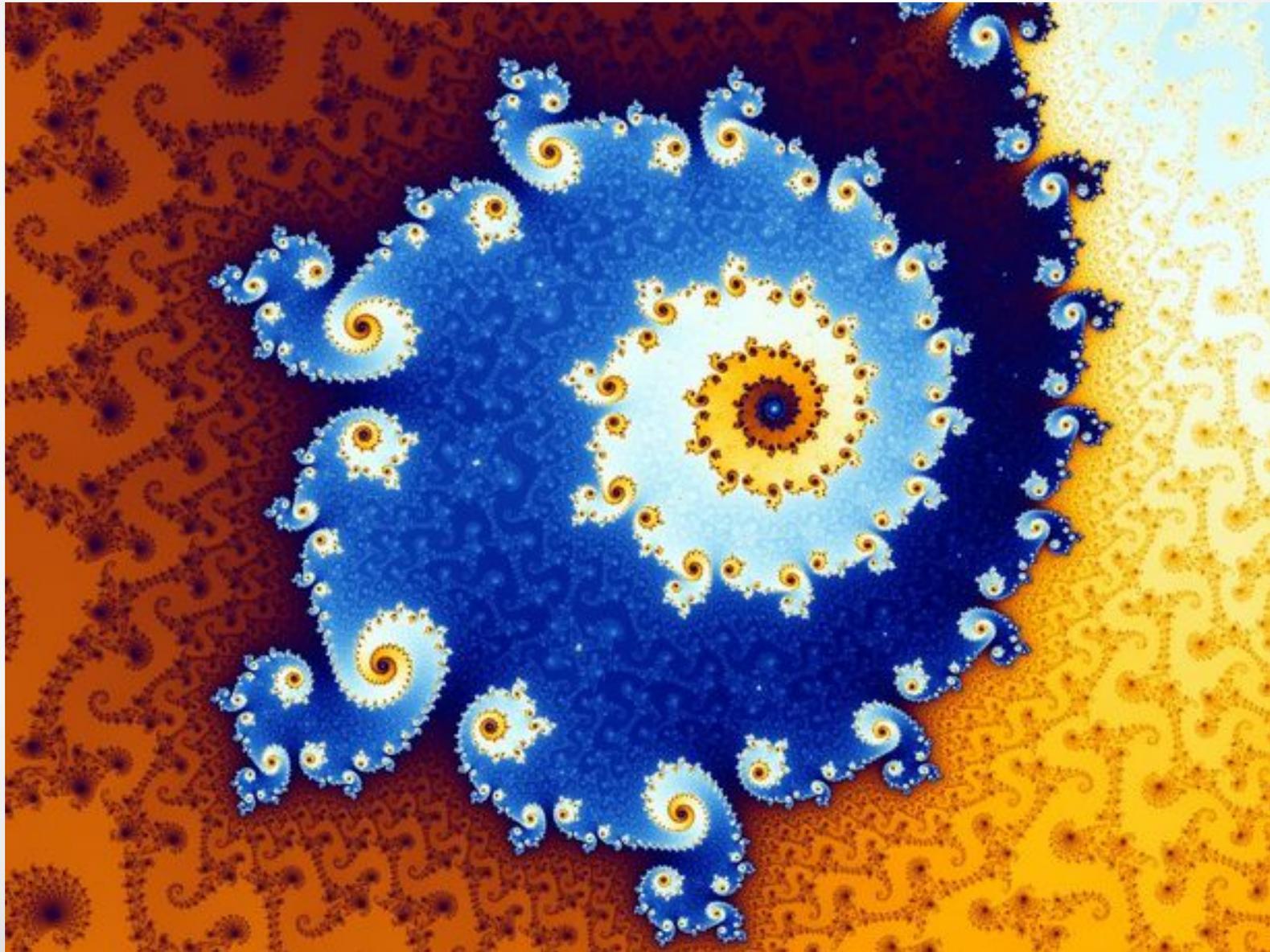
# Frattali



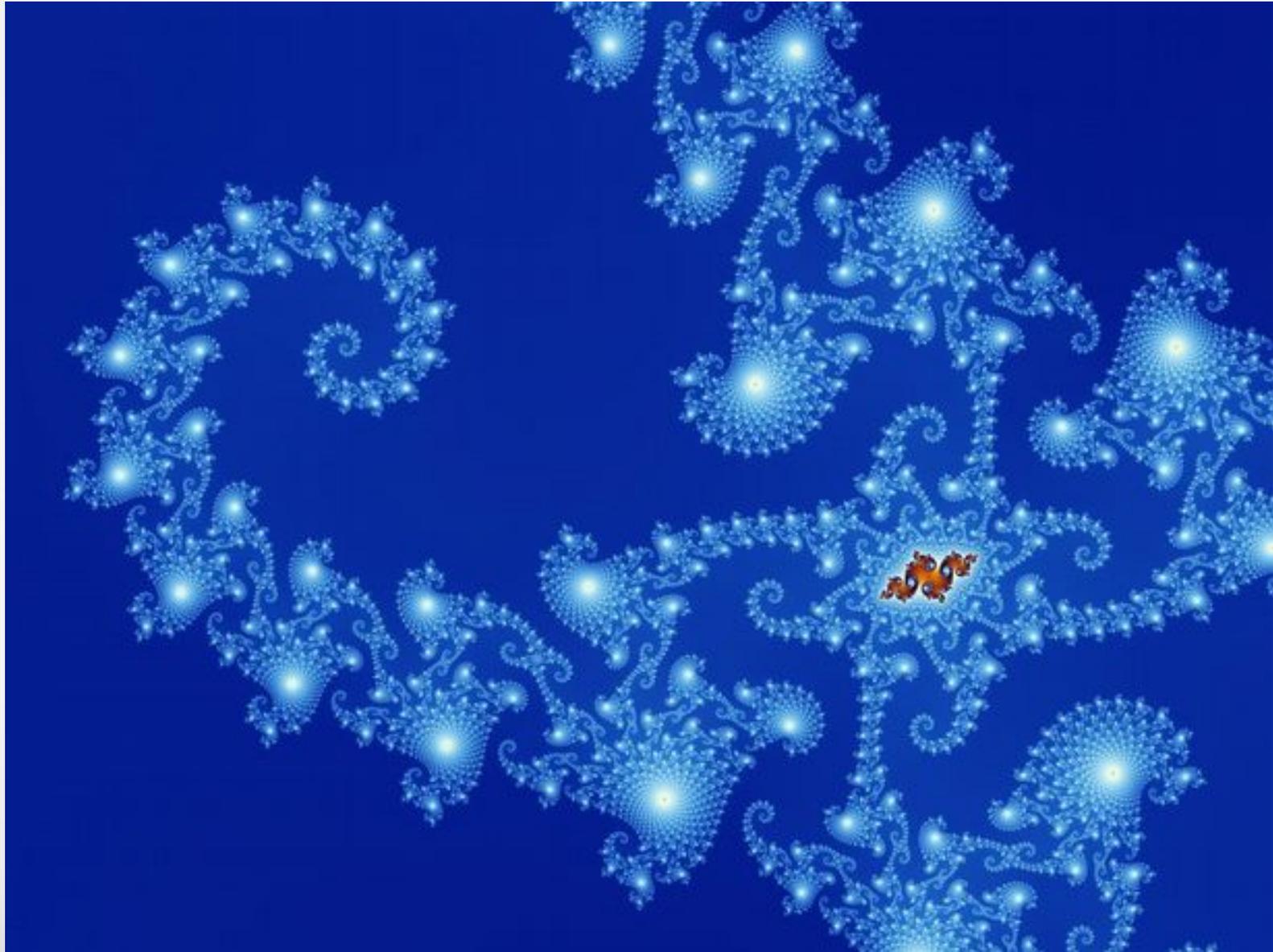
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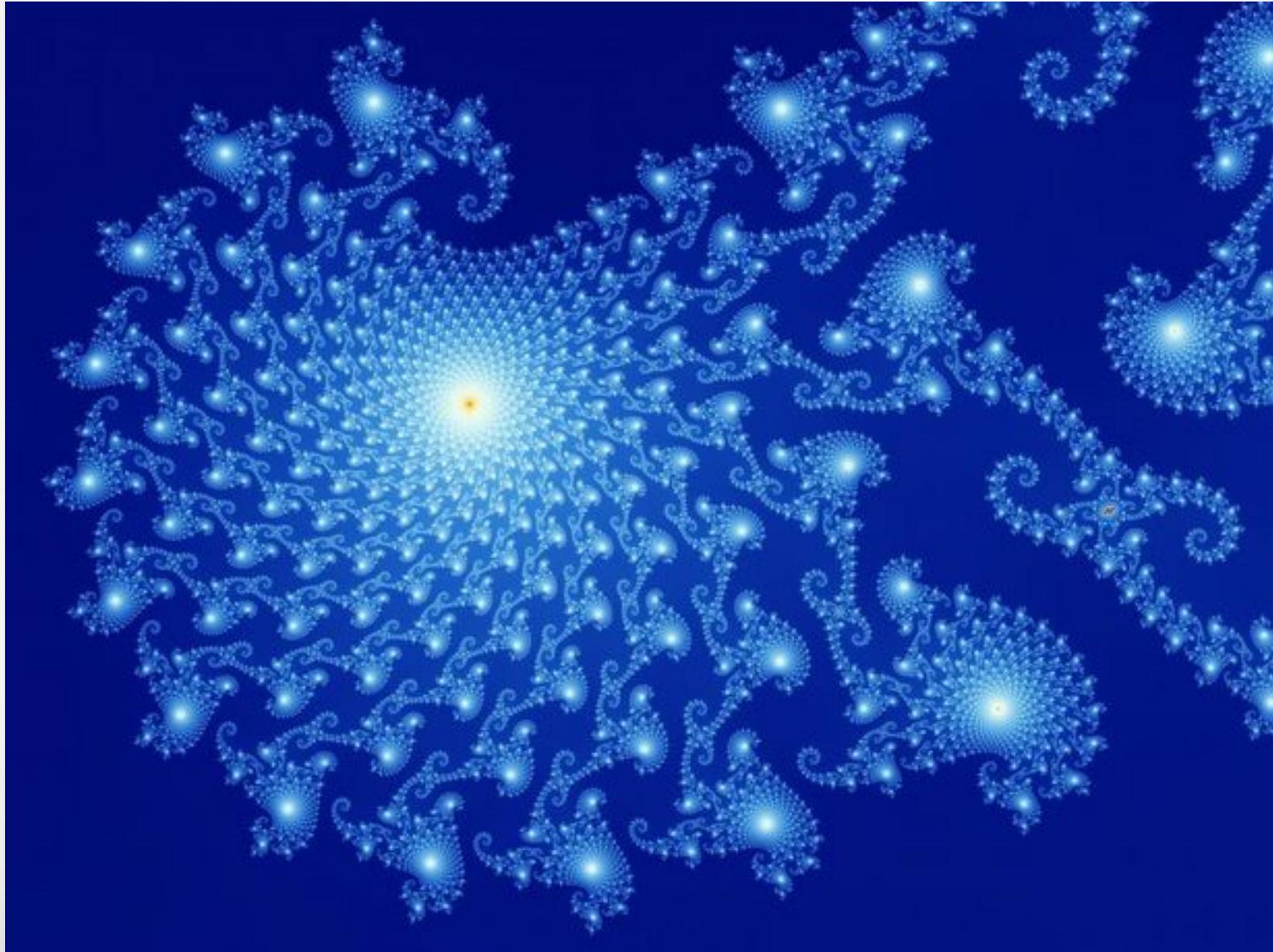
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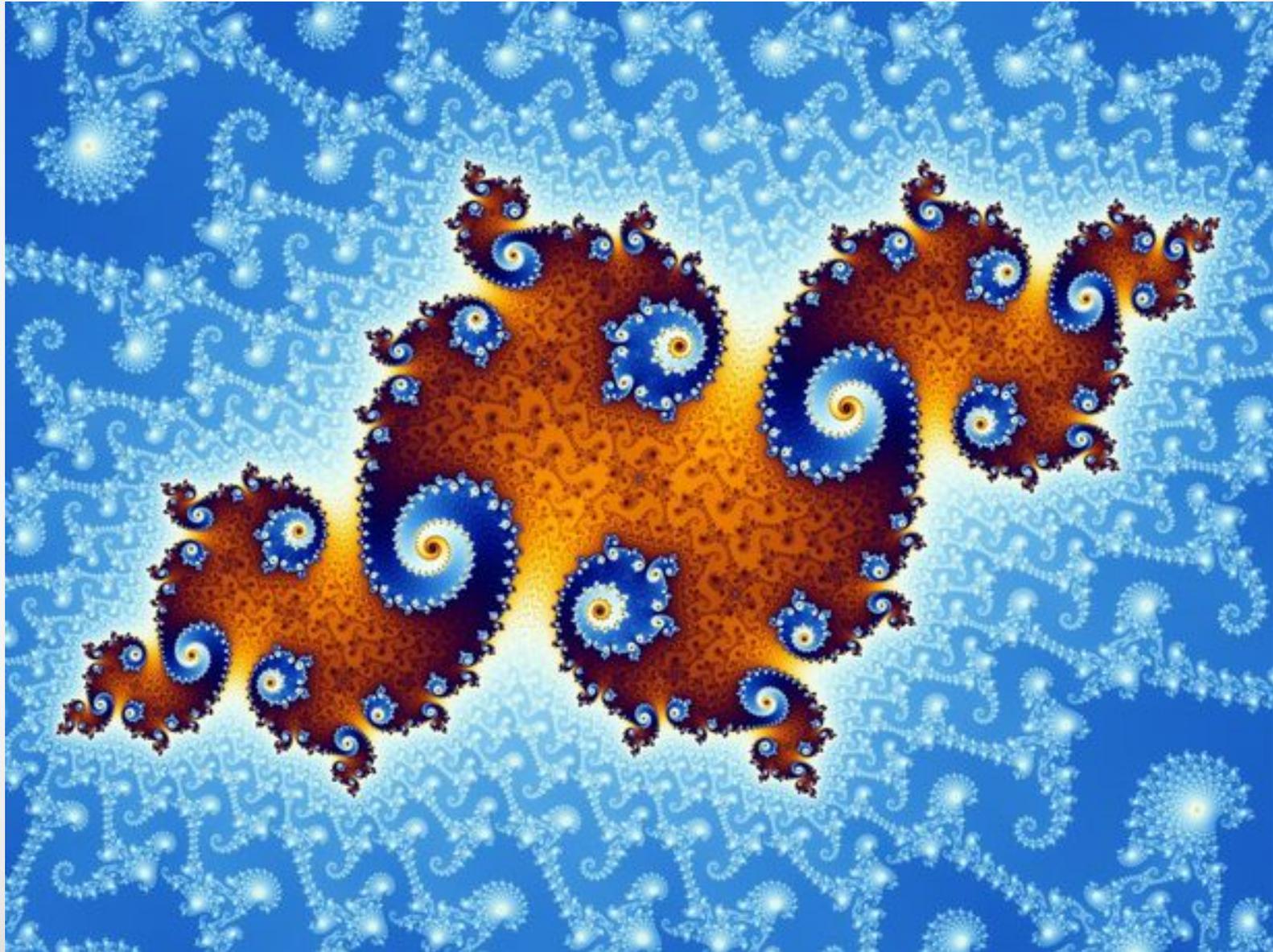
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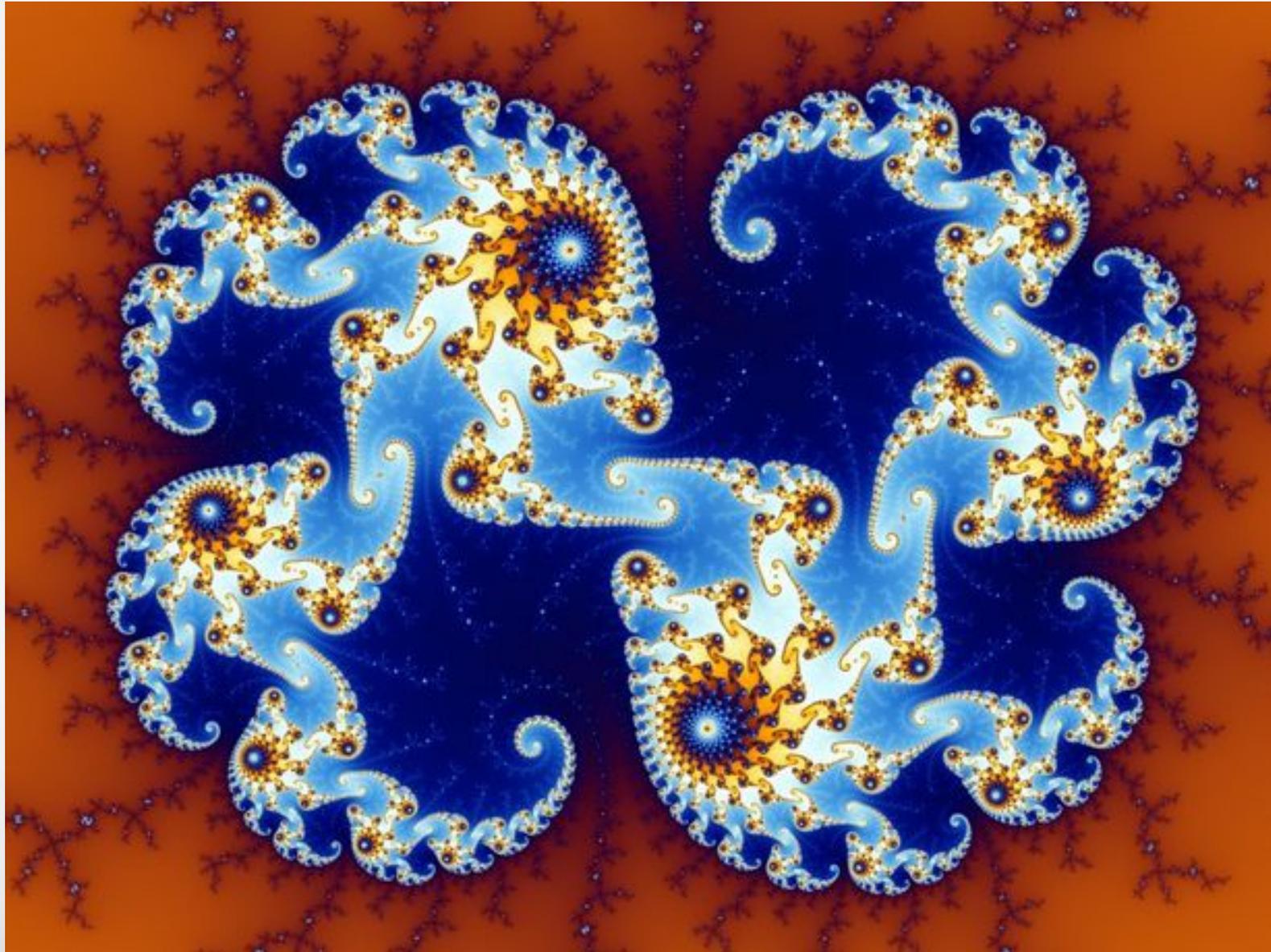
# Frattali



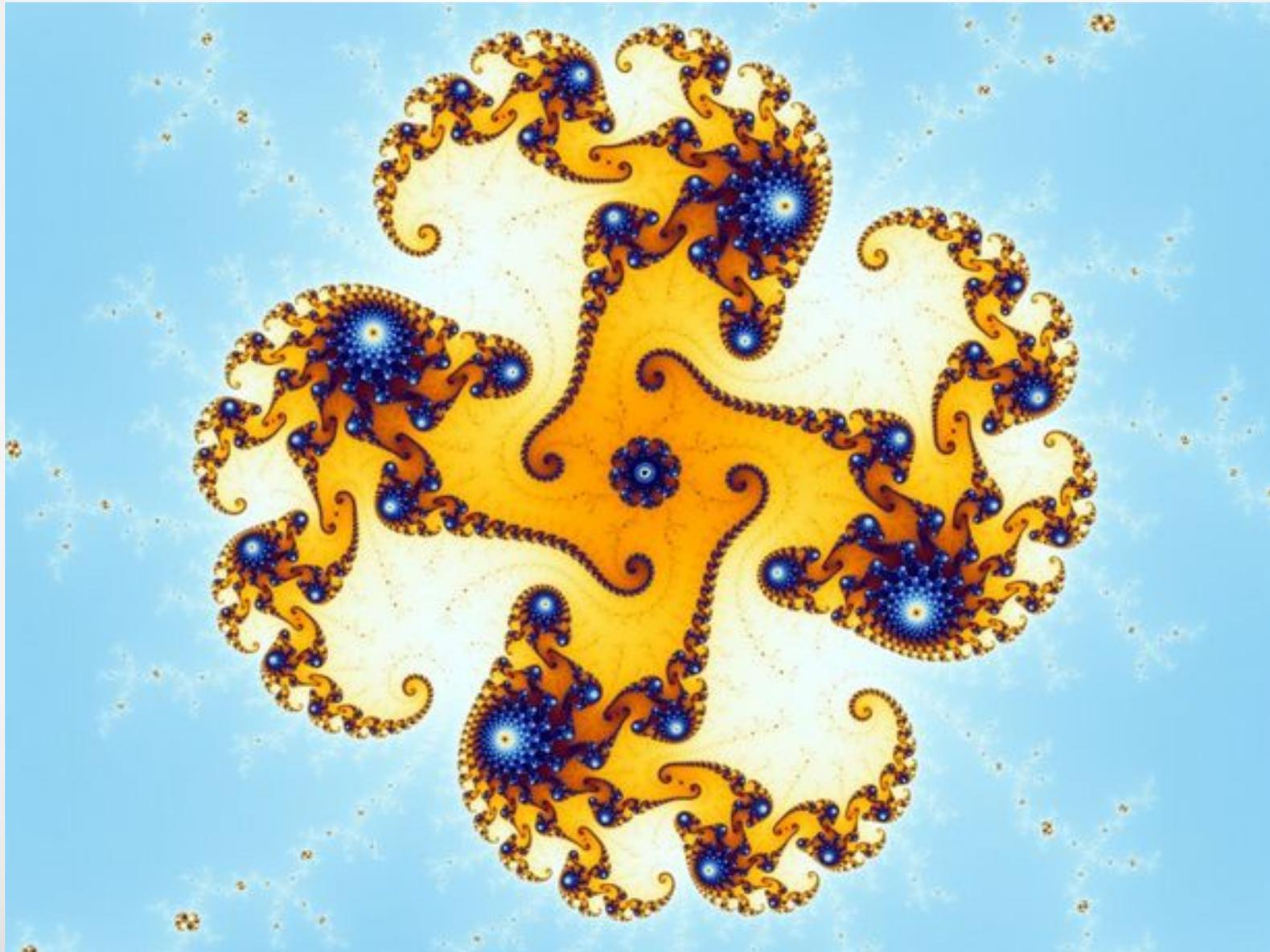
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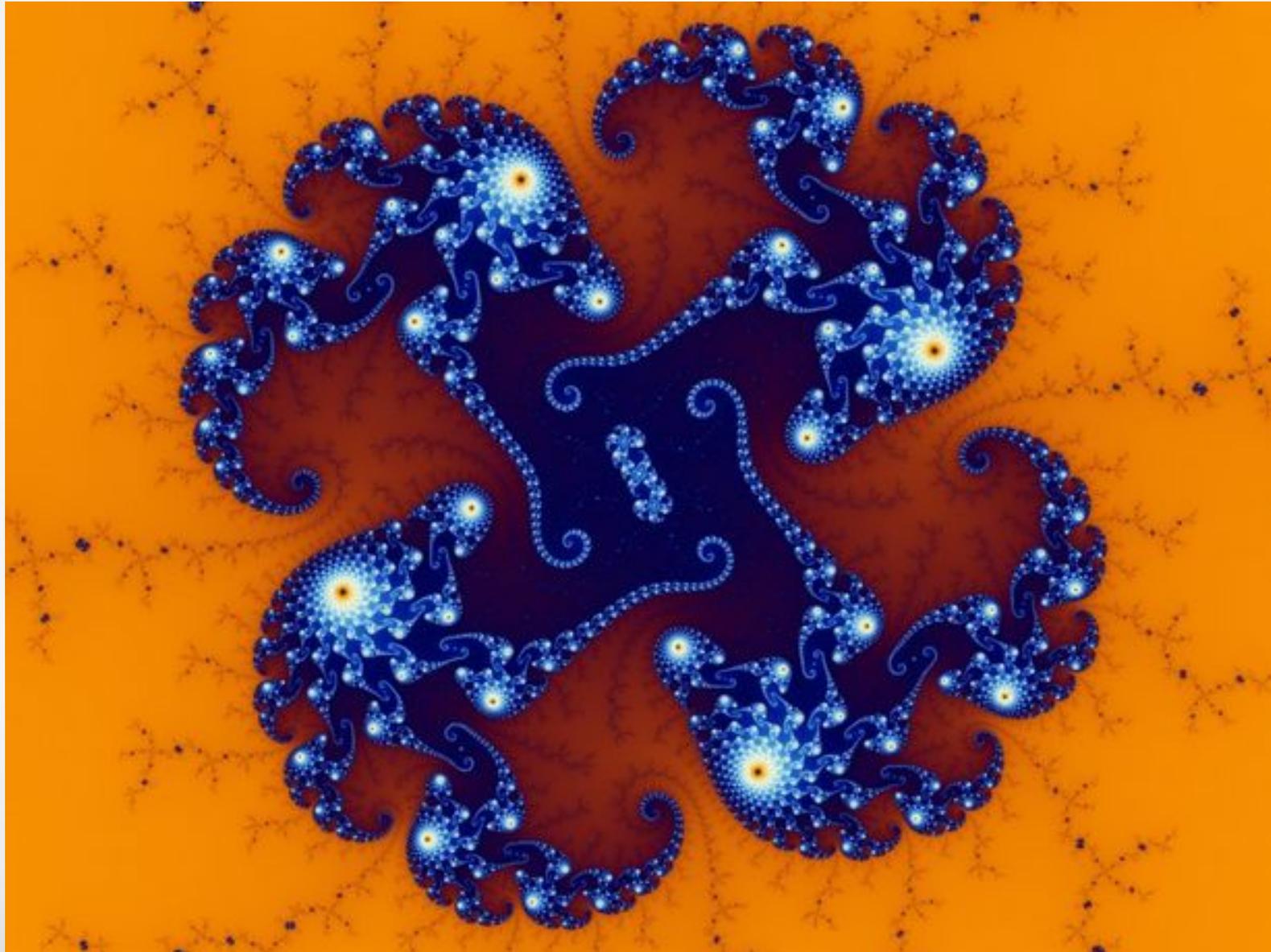
# Frattali



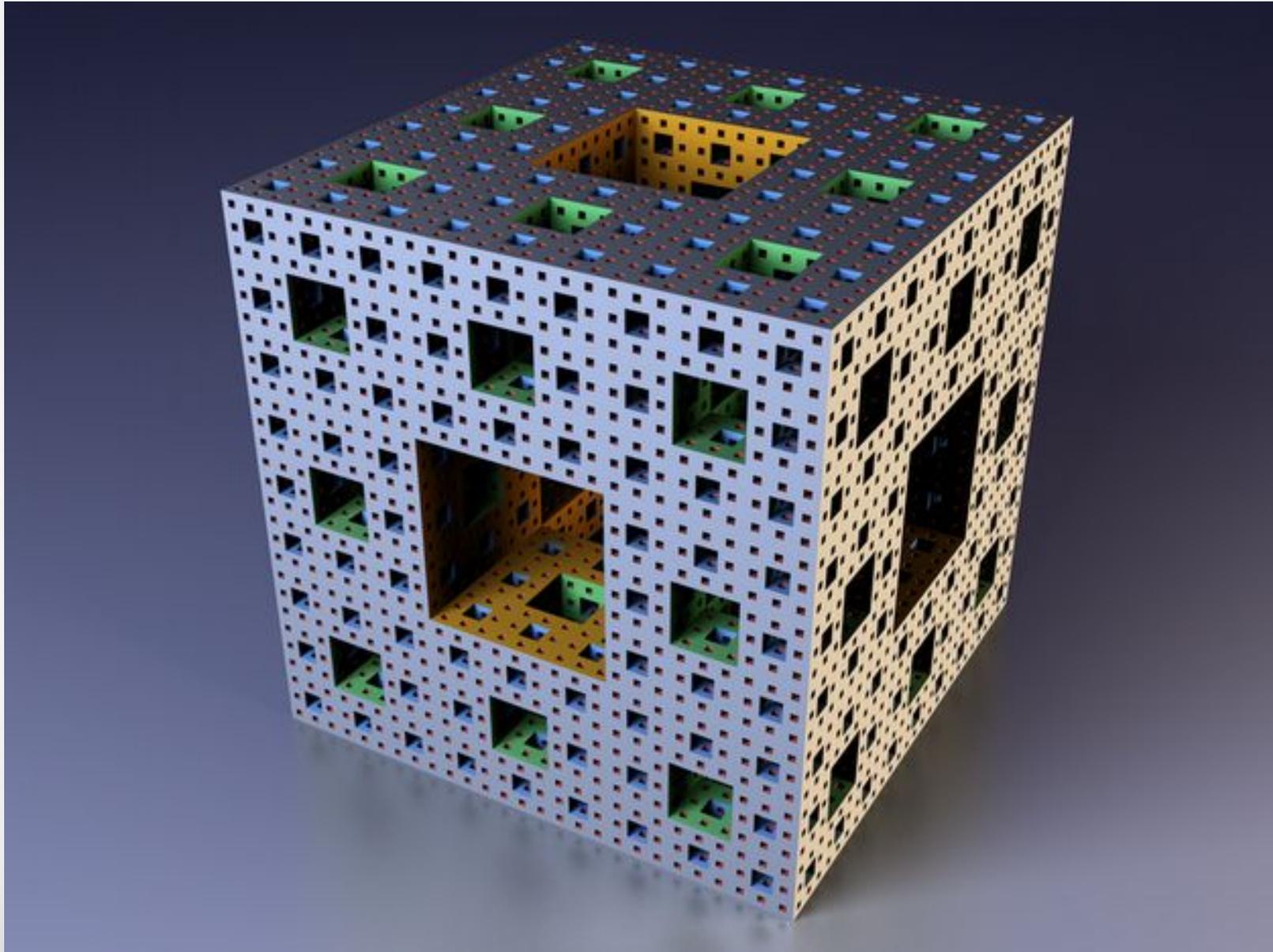
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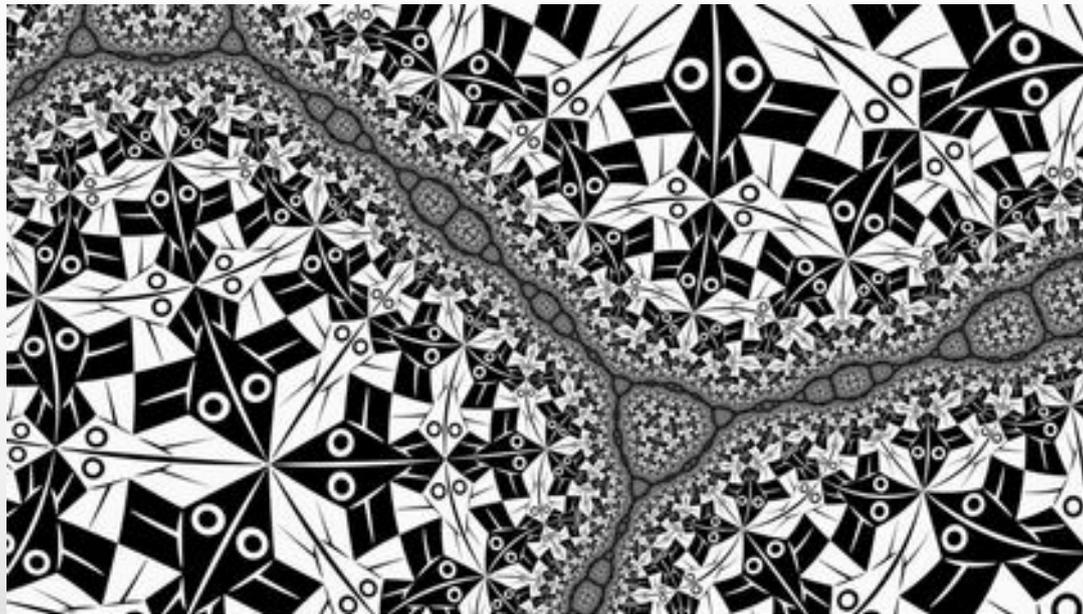
# Frattali



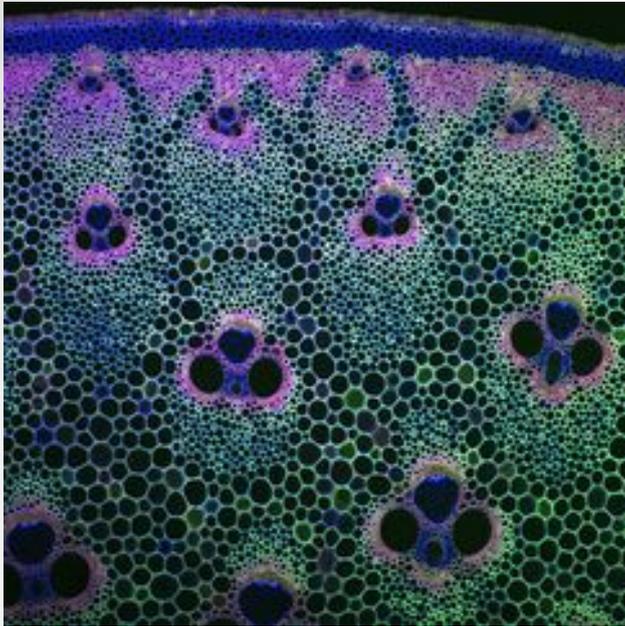
# Frattali



# Arte frattale



# Natura frattale



# Frattali natura

