

Mandelbrotov skup

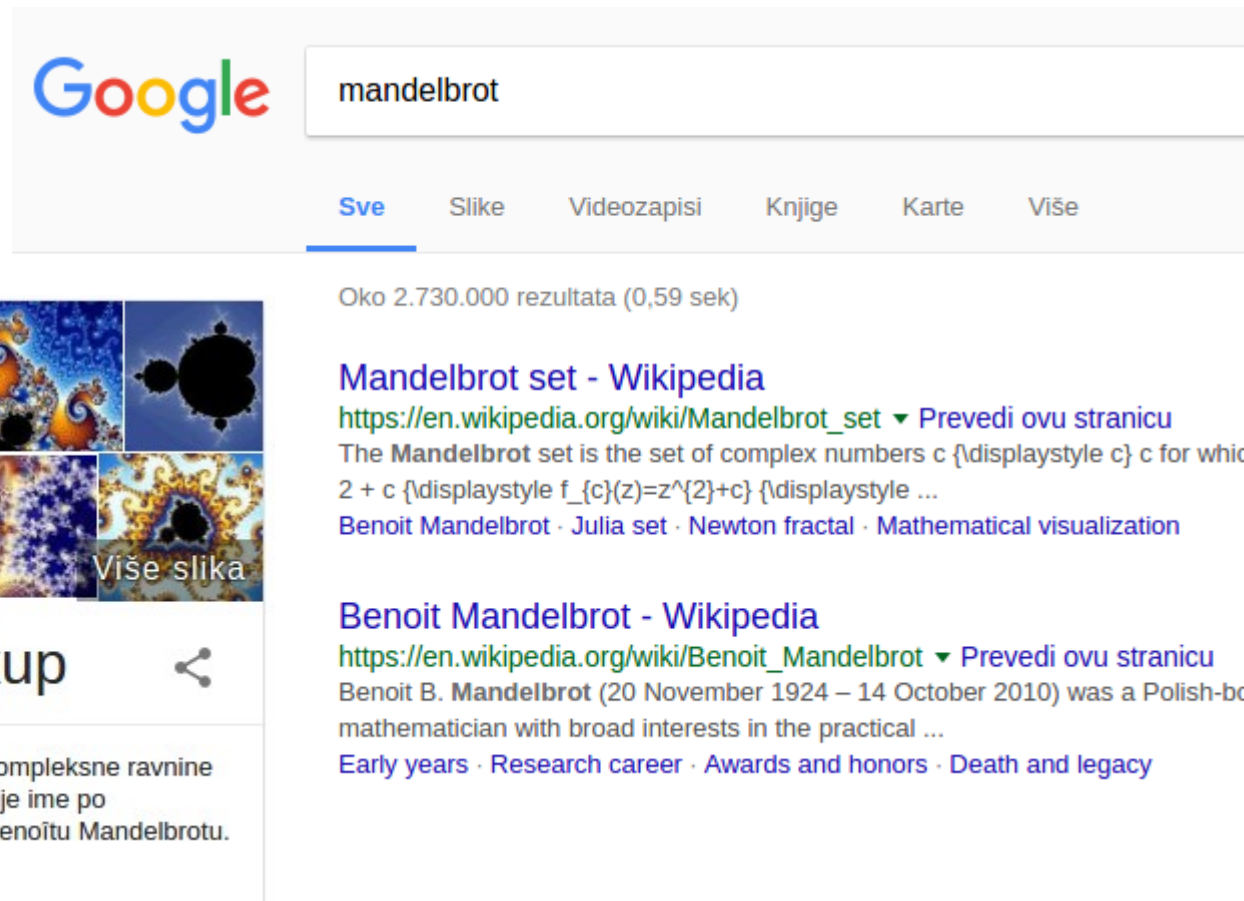
Šime Šuljić

Gimnazija i strukovna škola Jurja Dobrile Pazin



ISTRAKON 2017.

Mandelbrot - 2,7 milijuna stranica



Google

mandelbrot

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Mandelbrot set - Wikipedia
https://en.wikipedia.org/wiki/Mandelbrot_set ▾ [Prevedi ovu stranicu](#)
The **Mandelbrot set** is the set of complex numbers c for which the iterates of the function $f_c(z) = z^2 + c$ do not diverge to infinity. [Benoit Mandelbrot](#) · [Julia set](#) · [Newton fractal](#) · [Mathematical visualization](#)

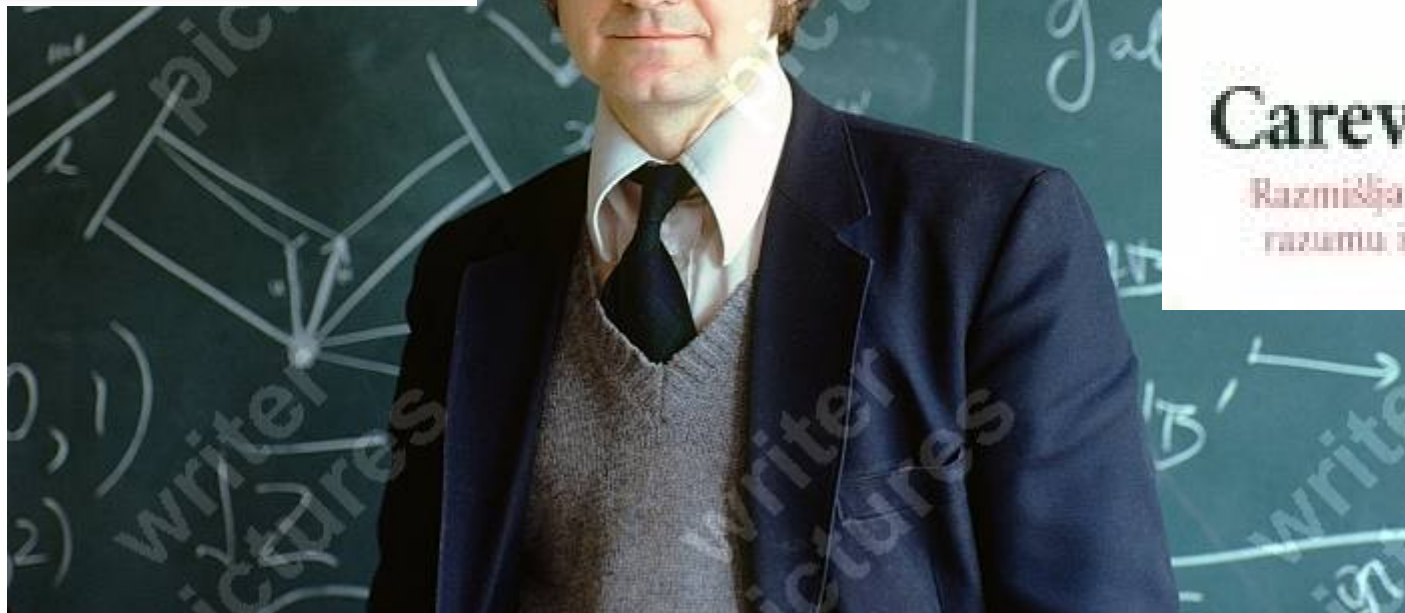
Benoit Mandelbrot - Wikipedia
https://en.wikipedia.org/wiki/Benoit_Mandelbrot ▾ [Prevedi ovu stranicu](#)
Benoit B. Mandelbrot (20 November 1924 – 14 October 2010) was a Polish-born mathematician with broad interests in the practical applications of chaos theory. [Early years](#) · [Research career](#) · [Awards and honors](#) · [Death and legacy](#)

Mandelbrotov skup

Mandelbrotov skup je skup točaka c kompleksne ravnine za koje je Julijin skup povezan. Dobio je ime po francusko-američkom matematičaru Benoïtu Mandelbrotu. [Wikipedia](#)

tvu? Kako da se ljudi postave prema različitim stavovima znanstvenika?

- To je vrlo težak problem. Da biste uopće dosegli točku za razumijevanje znanstvenih tema, morate mnogo toga znati, uključujući i prilično tešku matematiku. Zato se u javnosti vrlo često plasiraju površni odgovori. Govori se u analogijama: ova je teorija poput ovoga ili onoga... A time se zapravo ništa ne objašnjava o samoj stva-



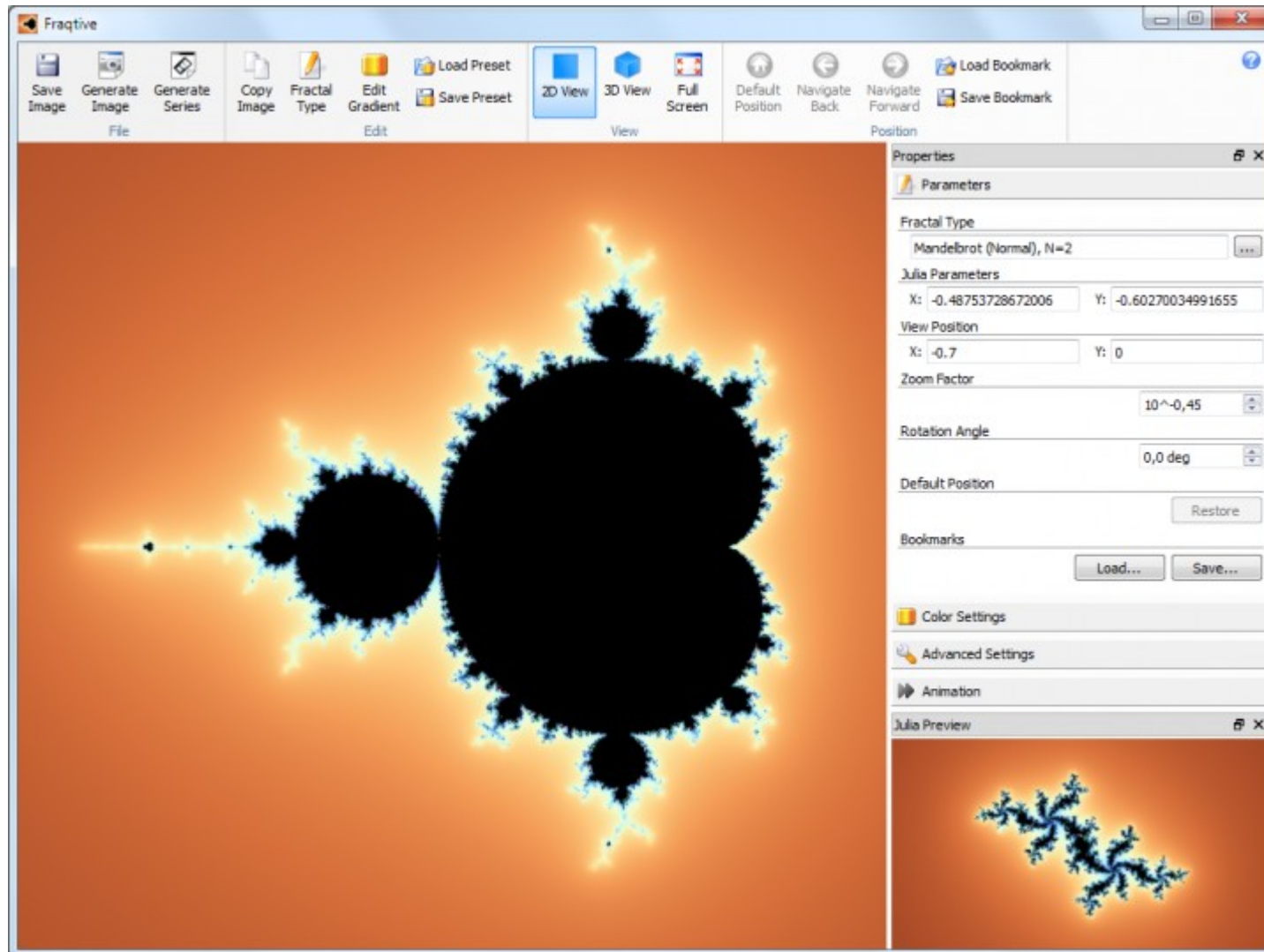
ROGER PENROSE



Carev novi um

Razmišljanja o računalima,
razumu i zakonima fizike

Fraqtive



Iteracija (lat. ponavljanje)

$$z \rightarrow z^2 + c$$

$$z_1 = 0^2 + c$$

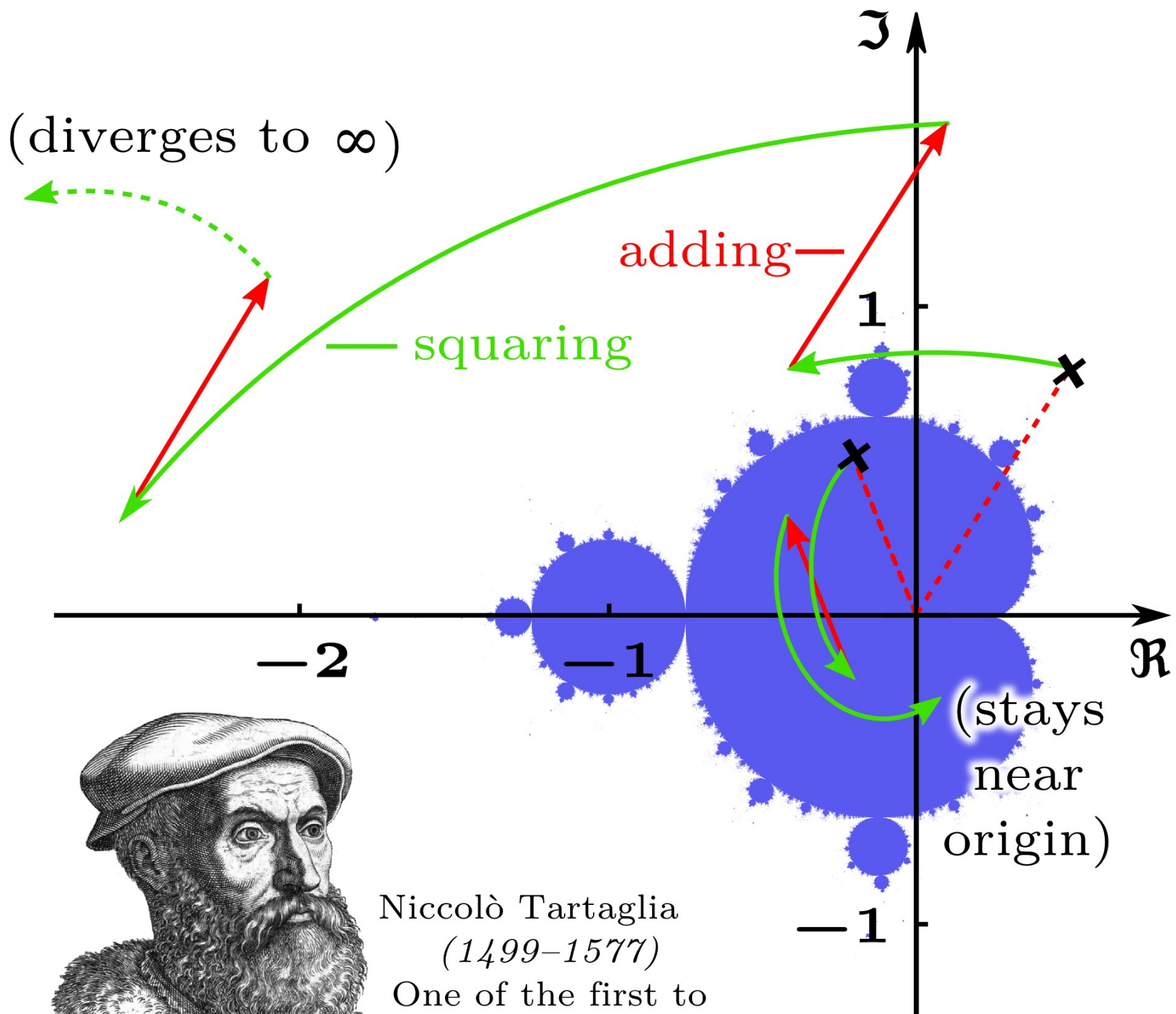
Jmandelbrot

$$z_2 = z_1^2 + c$$

$$z_3 = z_2^2 + c$$

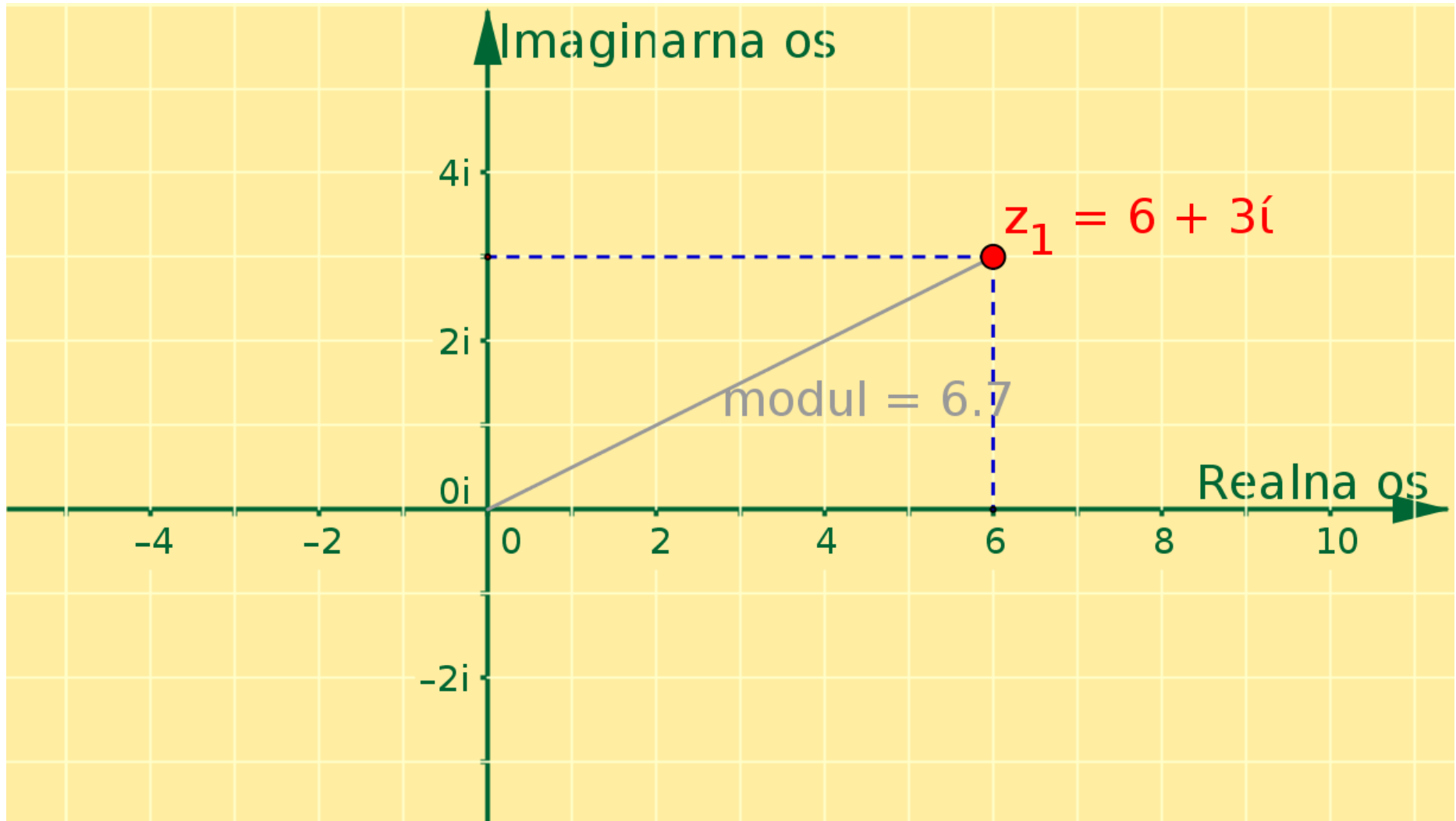
...

$$z_n = z_{n-1}^2 + c$$

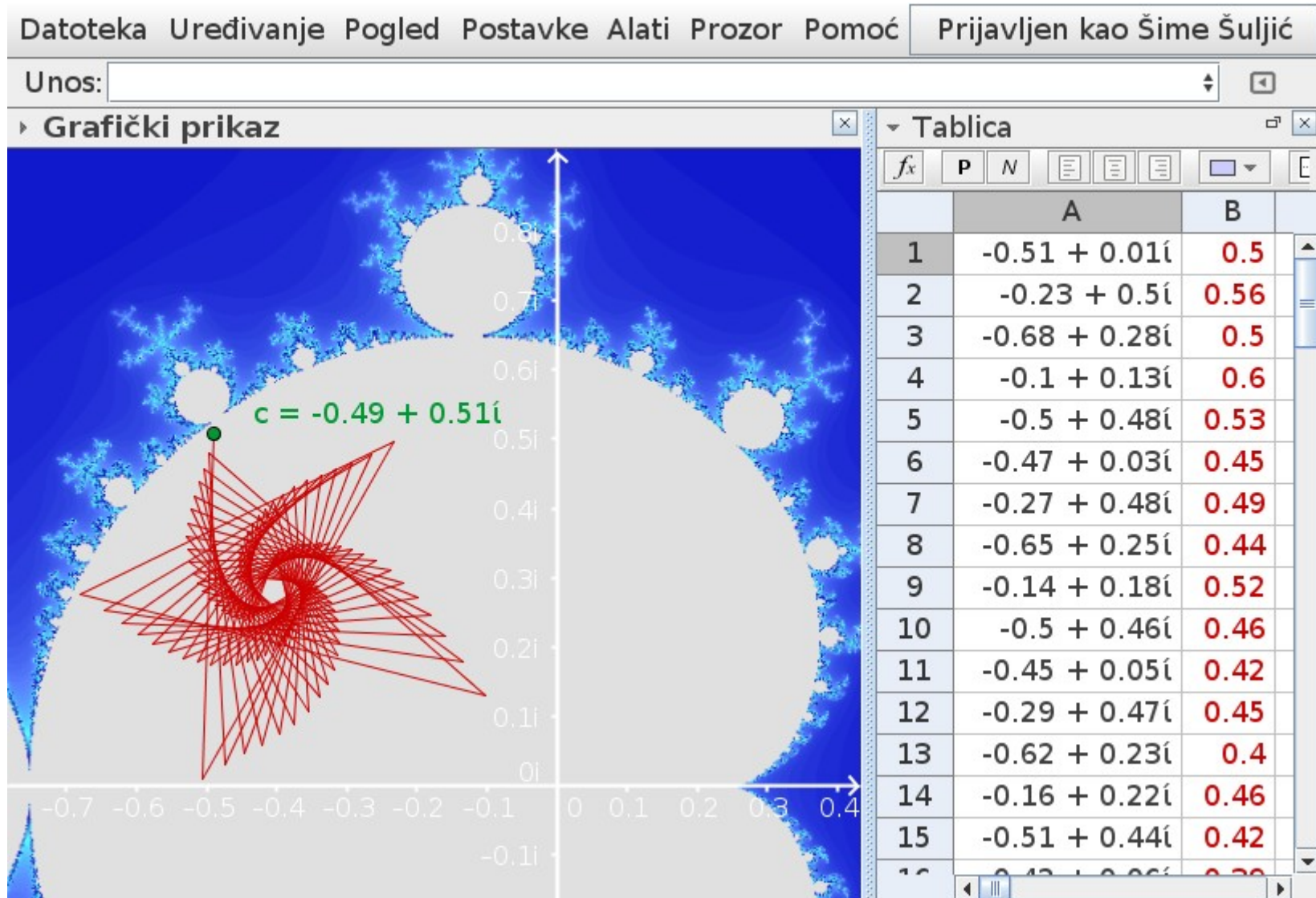


Niccolò Tartaglia
 (1499–1577)
 One of the first to
 use complex numbers

Kompleksna ravnina



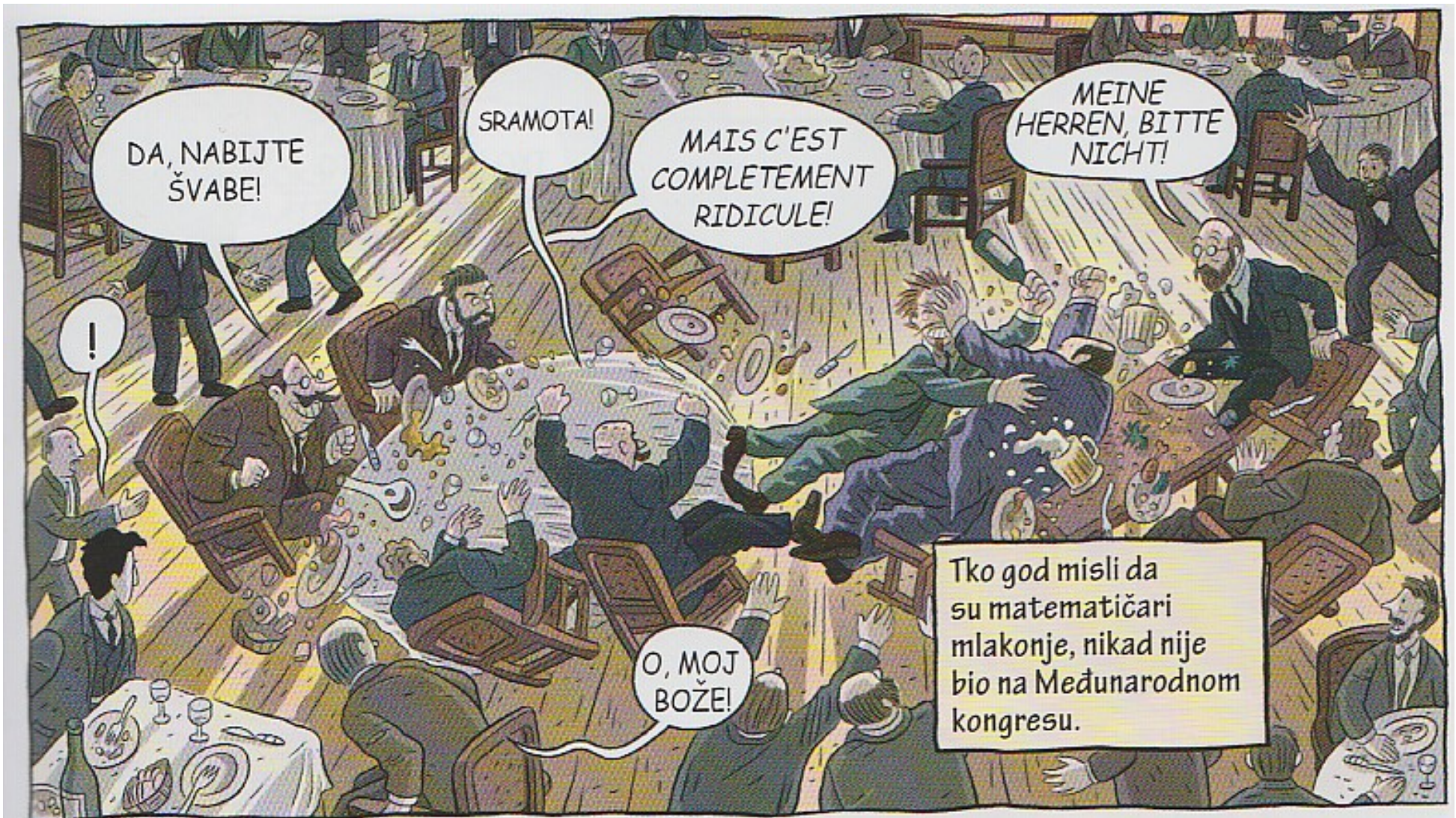
Iteracije



Benoit Mandelbrot (1924. - **14.10.2010.**)



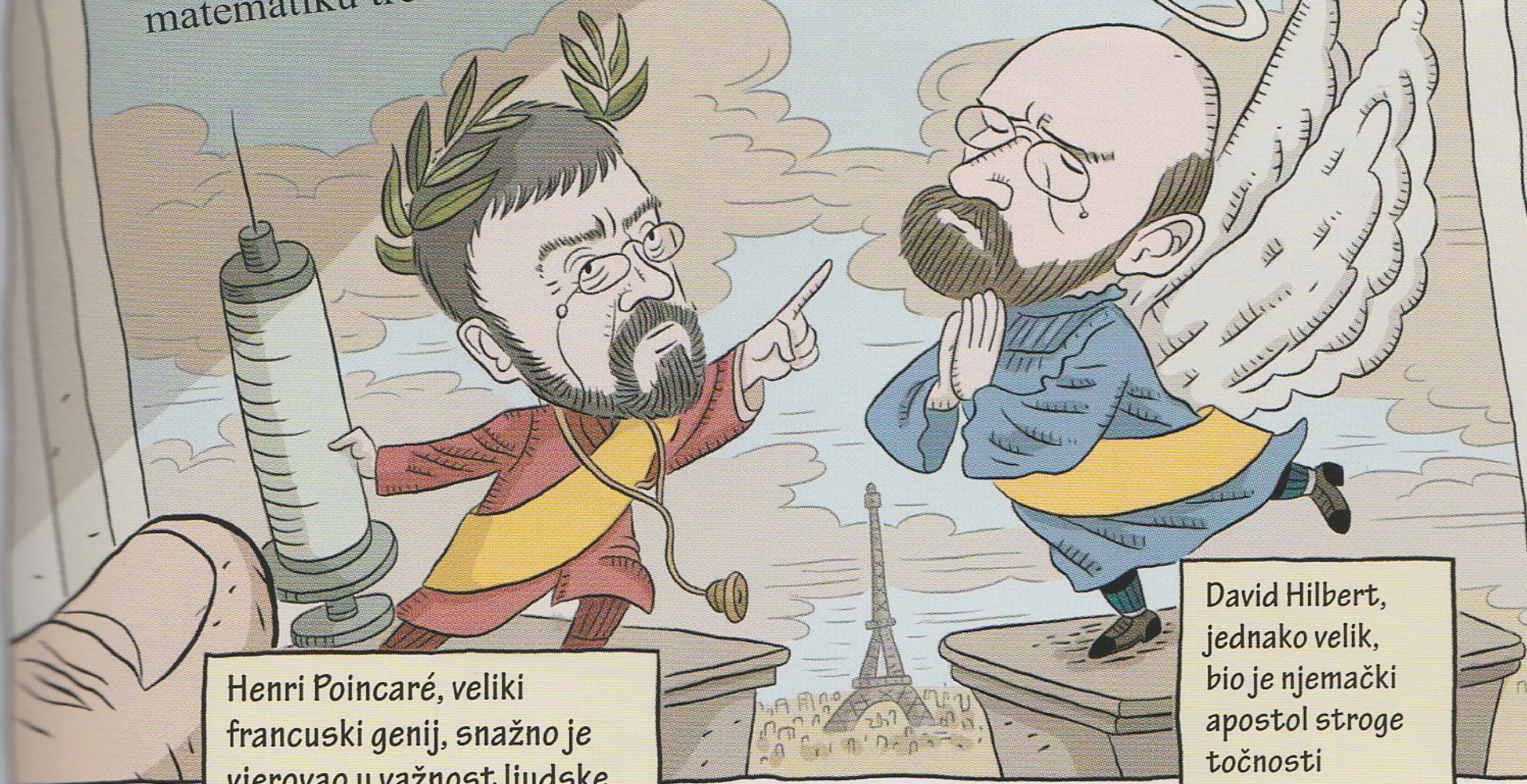
1900. godine u Parizu



J'ACCUSE MONSIEUR CANTOR!!

Teorija skupova je bolest od koje matematiku treba izliječiti!

Nitko nas neće izgnati iz raja koji nam je stvorio *Herr Cantor*!

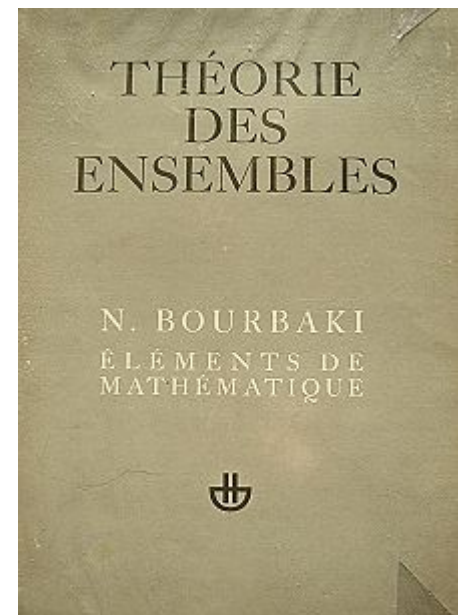


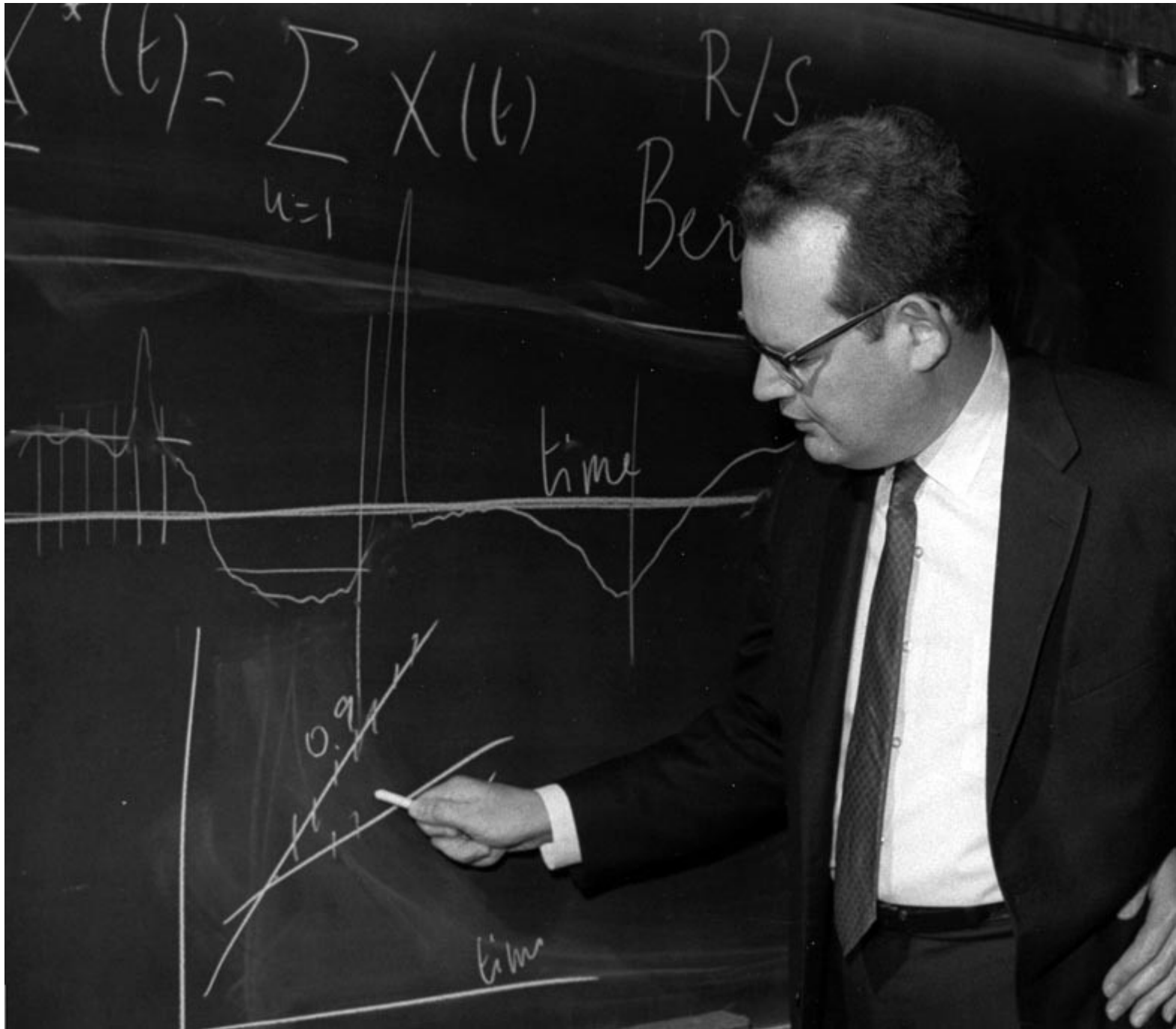
Henri Poincaré, veliki francuski genij, snažno je vjerovao u važnost ljudske intuicije.

David Hilbert, jednako velik, bio je njemački apostol stroge točnosti logičkoga dokaza.

Nicolas Bourbaki, XX. stoljeće kolektivni pseudonim

- Henri Cartan, Claude Chevalley, Jean Coulomb, Jean Delsarte, Jean Dieudonné, Charles Ehresmann, René de Possel, **Szolem Mandelbrojt**, André Weil...
- Hyman Bass, Laurent Schwartz, Jean-Pierre Serre, **Alexander Grothendieck**, Jean-Louis Koszul, Samuel Eilenberg, Serge Lang and Roger Godement.







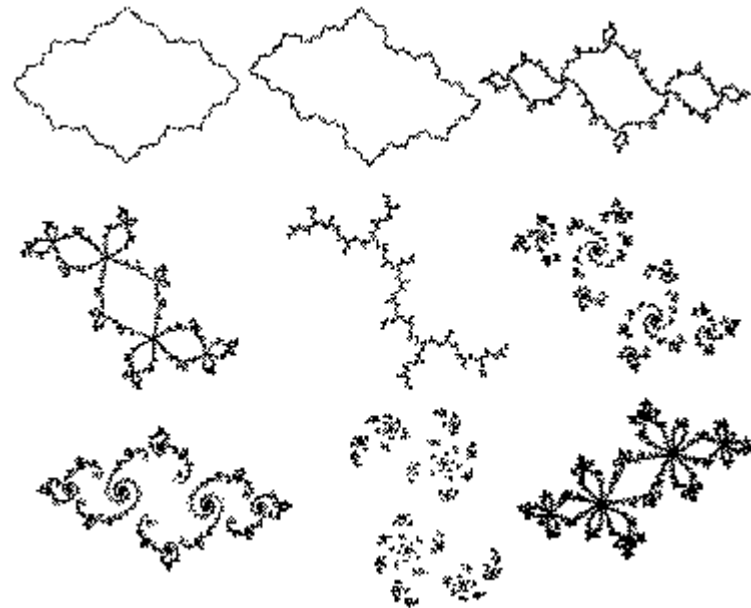
ENSEMBLE DE MANDELBROT



Pierre Fatou
1878 - 1929



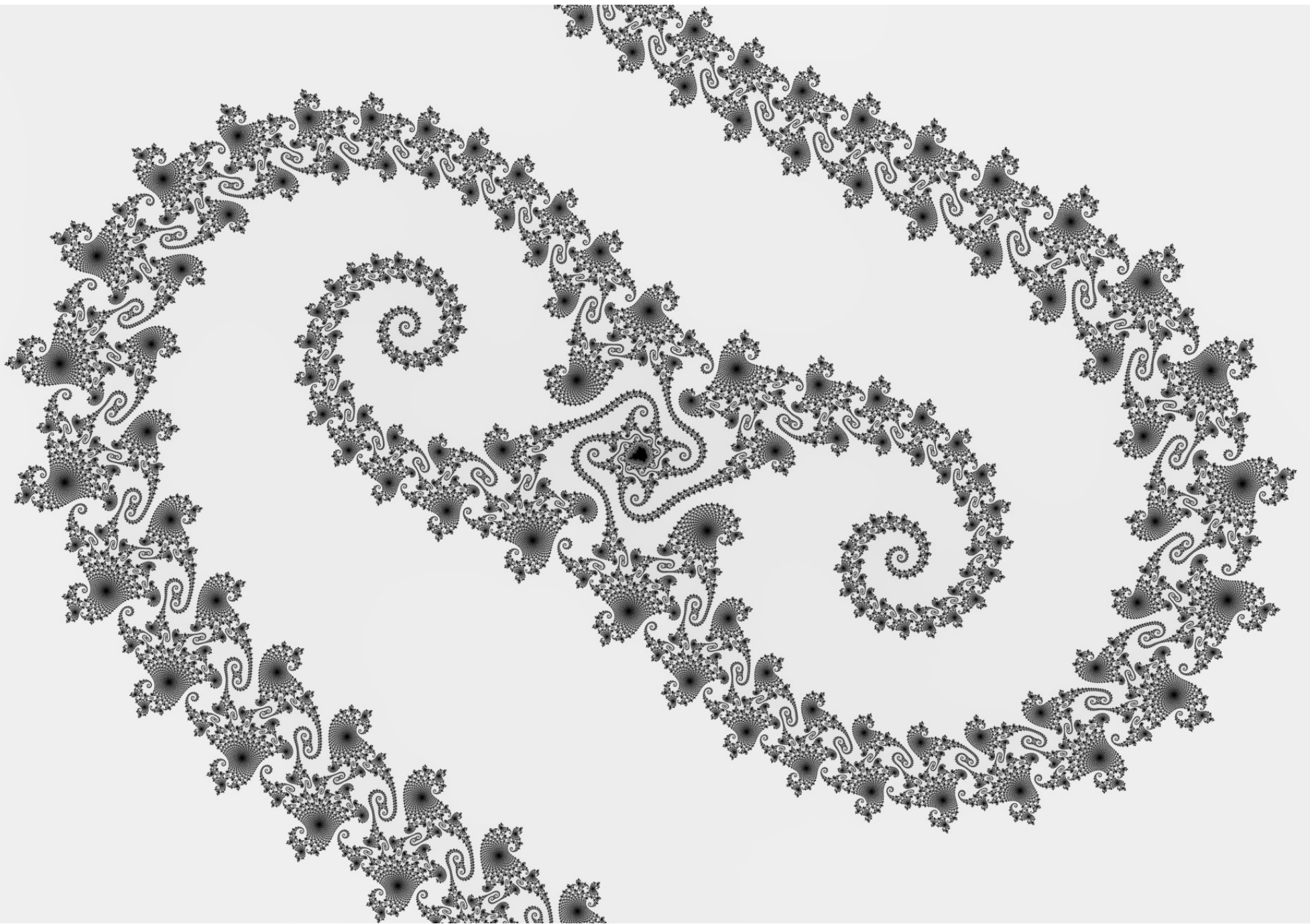
Gaston Julia
1893 - 1978

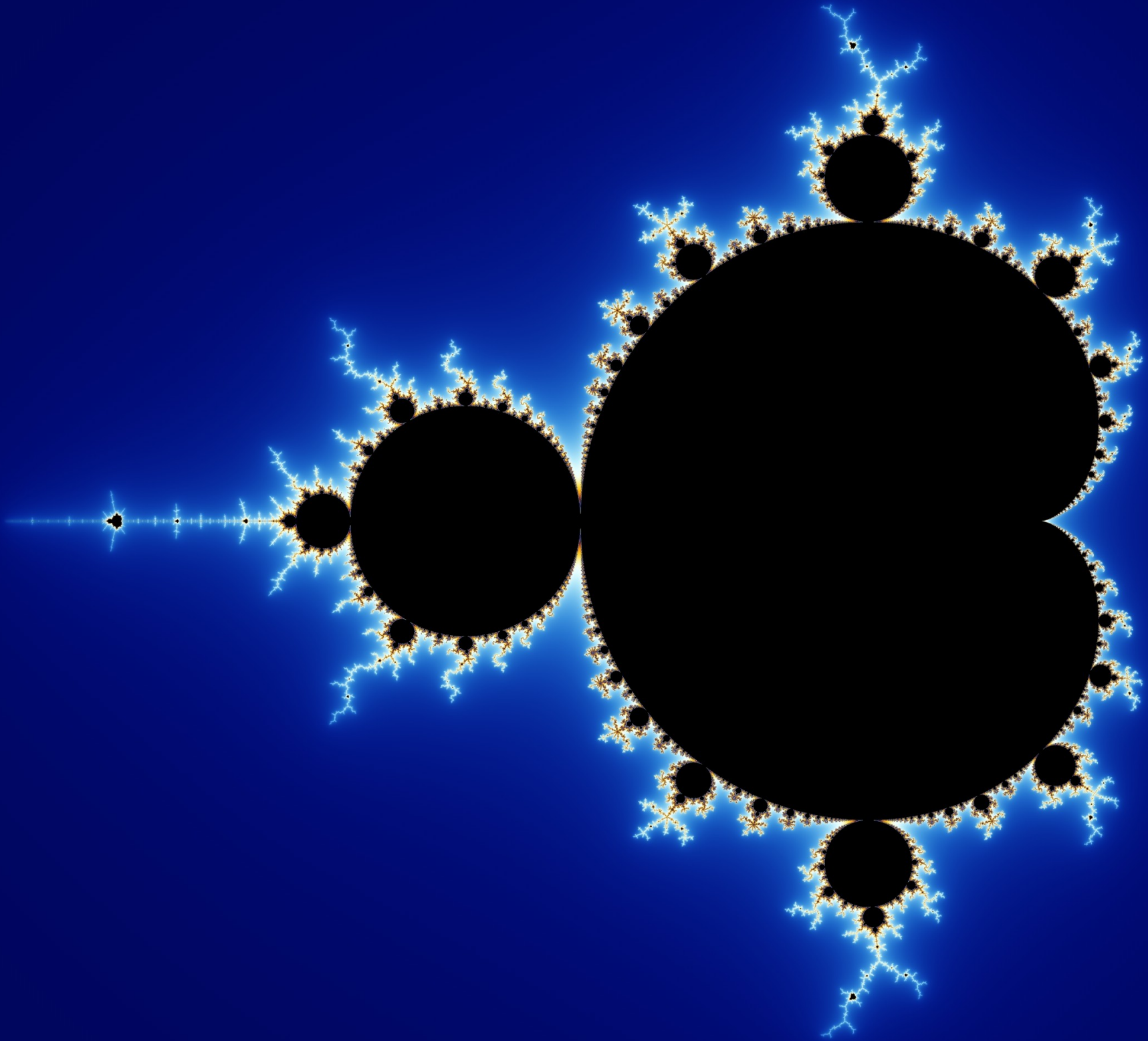




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2010: A Mandelbrot Odyssey

Michael Hogg



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[Software](#)

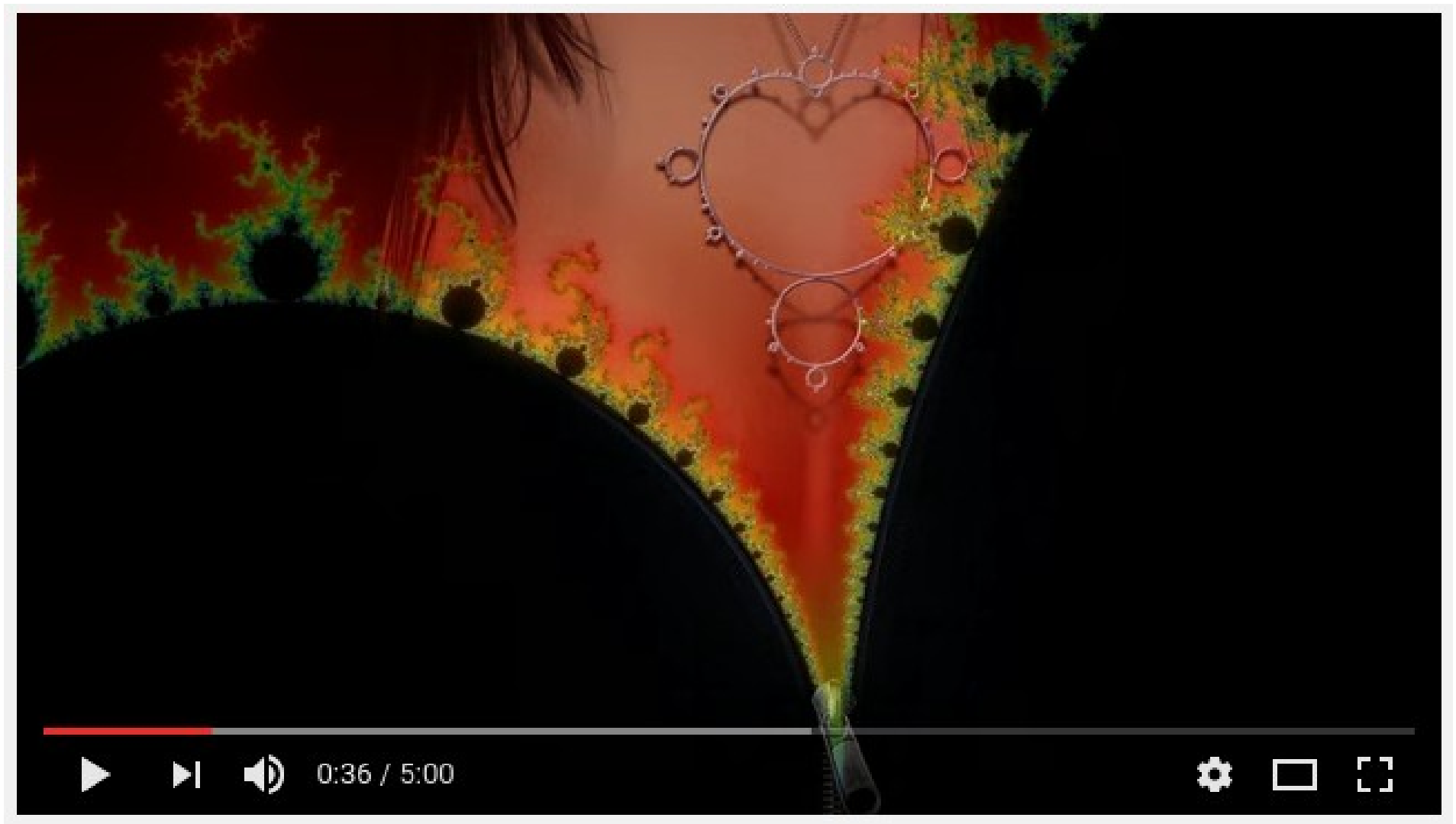
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A Journey in The Mandelbrot set



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Benoit Mandelbrot:

Fractals and the art of roughness

TED2010 · 17:09 · Filmed Feb 2010

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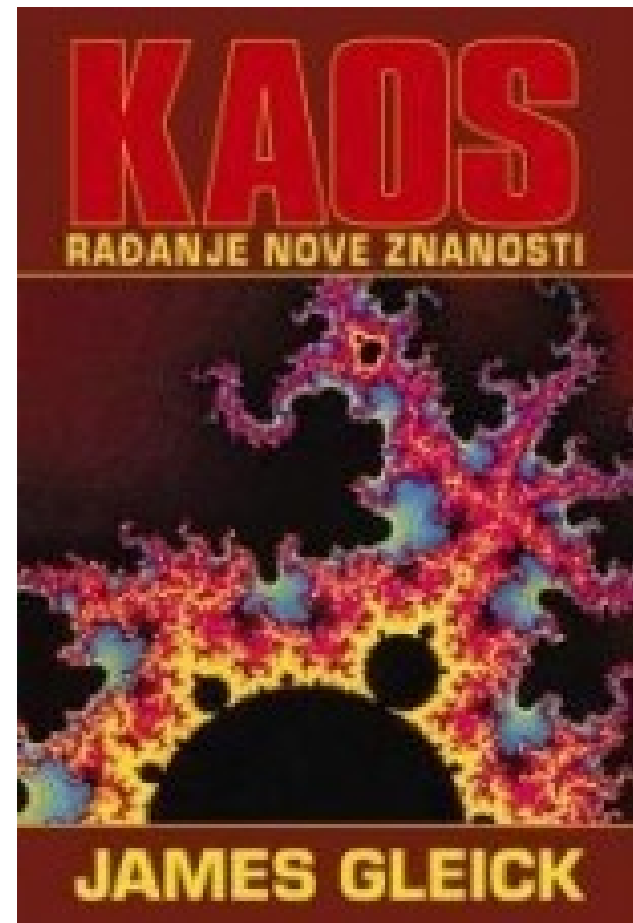


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Knjiga

"Vječnost nije dovoljna da ga se cijelog pregleda."

James Gleick



<https://ggbm.at/kN6pNaau>



The image shows a browser window displaying the GeoGebra website. The browser's address bar shows the URL <https://www.geogebra.org/home>. The website header includes the GeoGebra logo and navigation links for "Materijali", "Preuzimanja", "Blog", "Pomoć", and a "Prijavi se" button. The main content area features three large icons: a teacher pointing to a screen with a 3D polyhedron (labeled "Materijali"), a hand interacting with a tablet showing a graph with $a=2$ (labeled "Pokreni GeoGebru"), and a computer monitor with a green download arrow and a smartphone (labeled "Preuzimanja"). At the bottom, a teal banner contains the text "GEOGEBRA" in large letters, followed by "GRAFIČKI KALKULATOR ZA FUNKCIJE, GEOMETRIJU, ALGEBRU, ANALIZU, STATISTIKU I 3D GEOMETRIJU!".

Hvala na pažnji!

