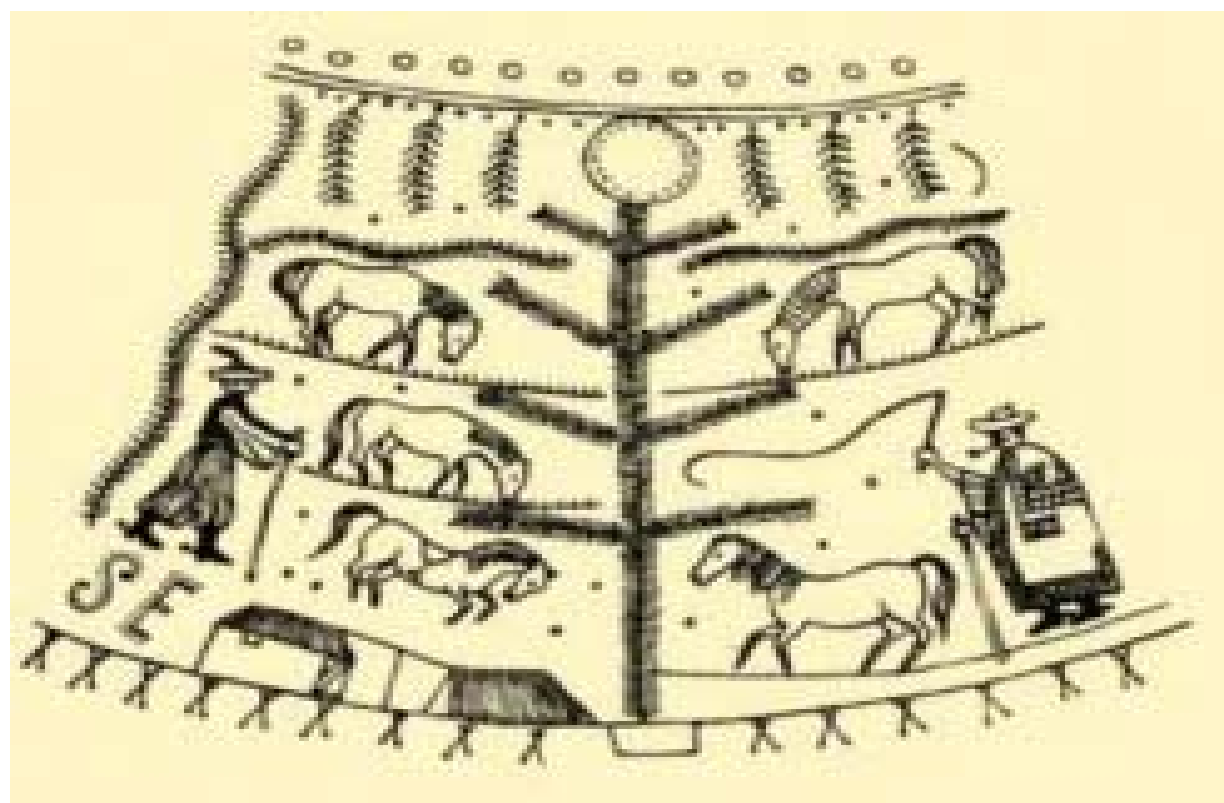


A hiperbolikus szemléletmód jelei gondolkodásunkban

EMT Kolozsvár
2025.

Dr. Munkácsy Katalin
ELTE TTK



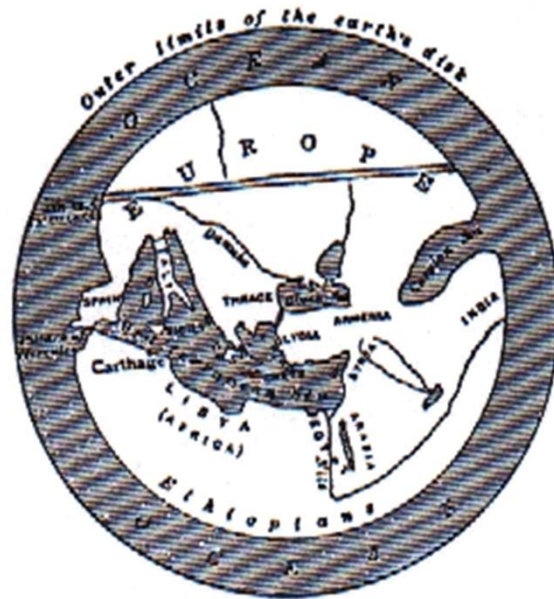


Világvége

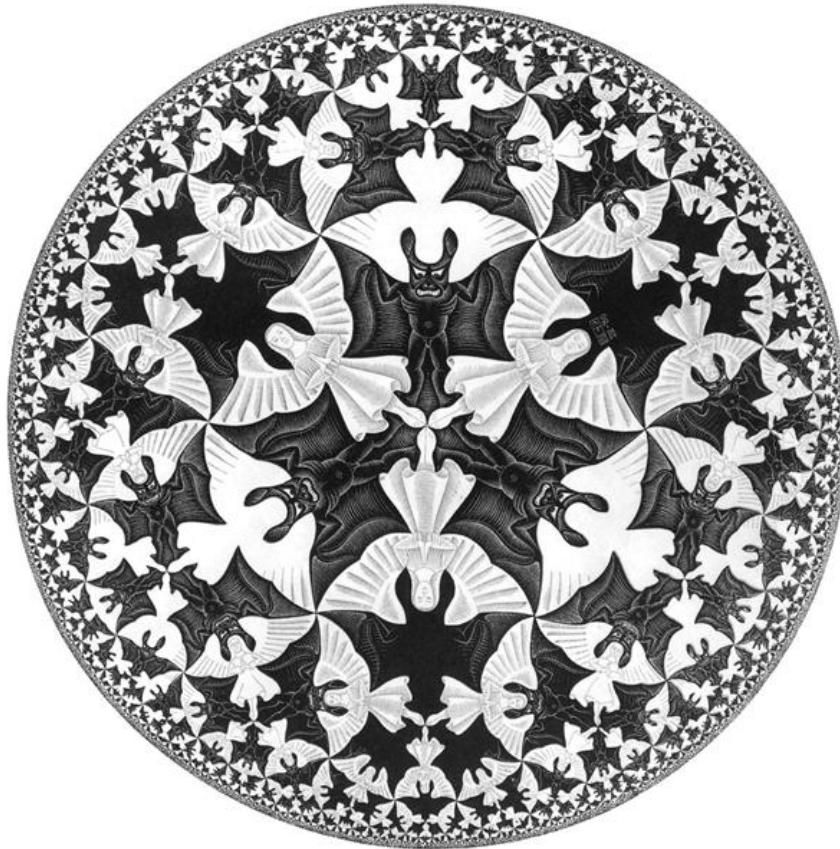


Hyperbolic idea

- ‘Map of the World by Hecataeus, 517 B. C. Showing the primitive ideas held at the time of Pythagoras’ (Smith)

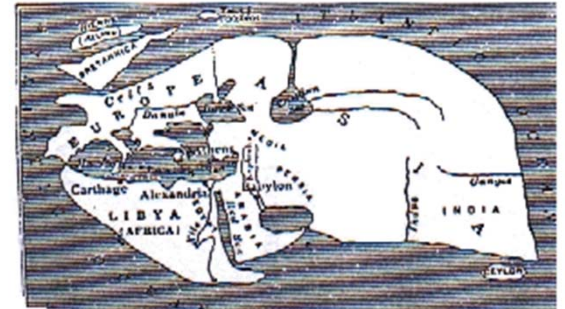


Escher Circle limit IV.



Euclidean idea

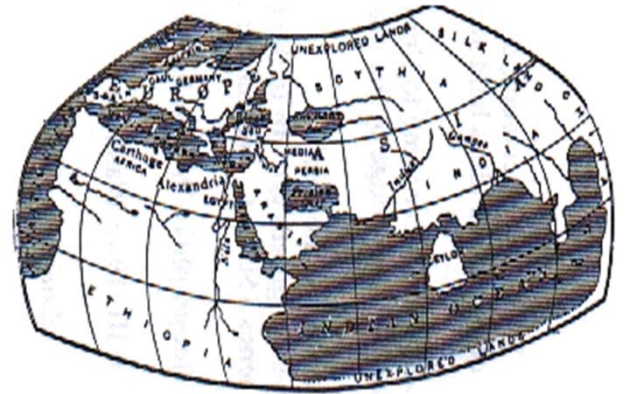
- ‘Map of the World According to Eratosthenes. This shows the knowledge of the geography of the world in the 3rd century B.C.’ (Smith)

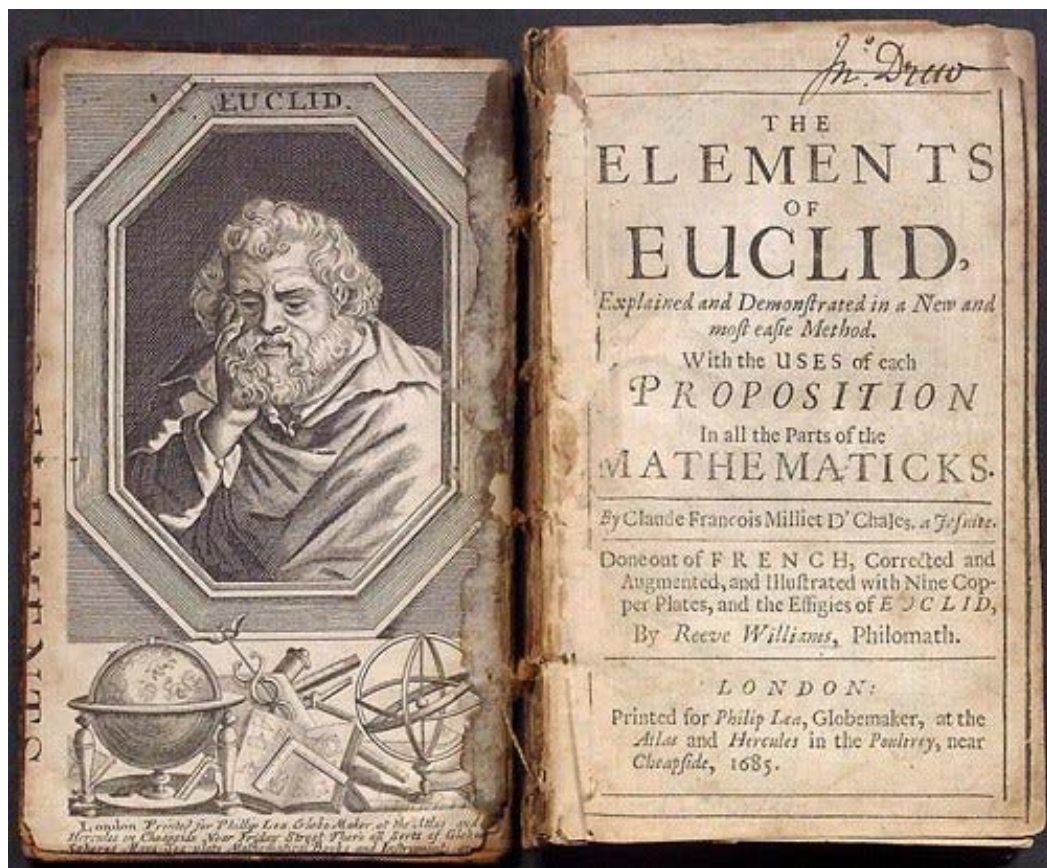




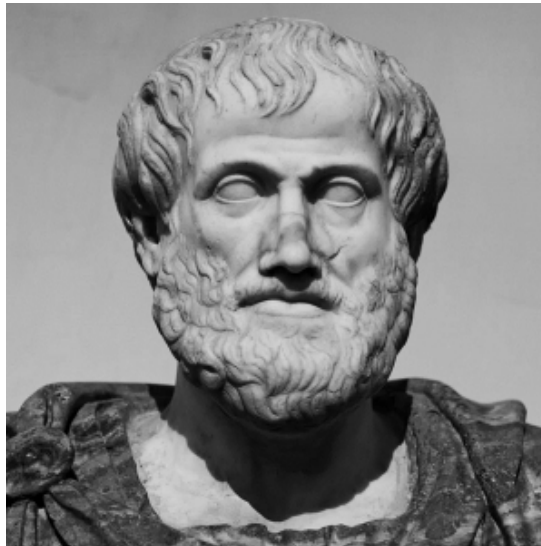
Spherical idea

- Ptolemy's Map of the world
150 A. C. (Smith)





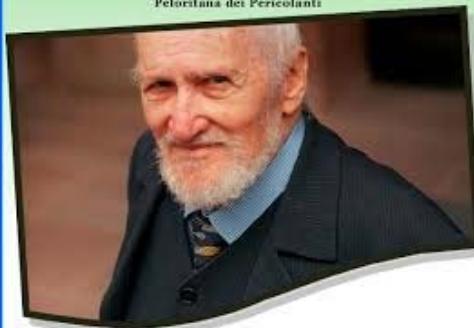
Arisztotelész, 384-322 BC



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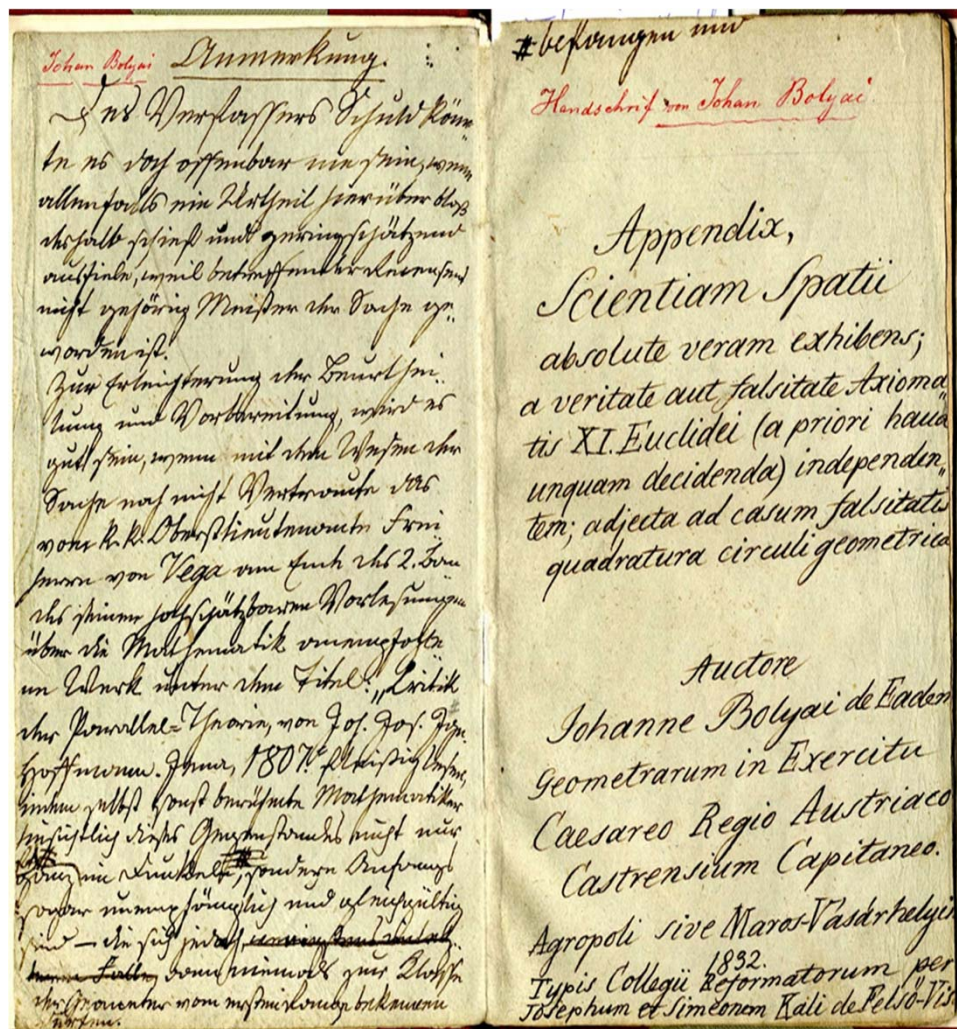
C. Natoli, F. Oliveri,

G. Polizzi, L. Restuccia,

R. Romani.

Előzmények: Proclus, Omar Khayyám, Saccheri,
Wallis, Lambert, Legendre és mások

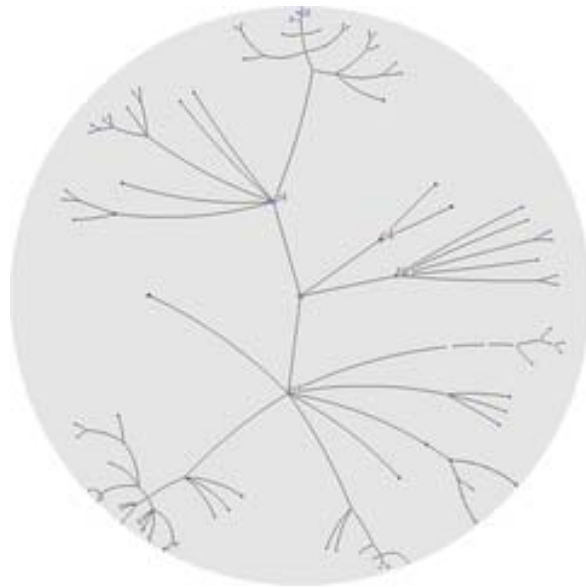
Az Appendix Bolyai János kézírásával



Göttingen

- Riemann:
Über die hypothesen, welche der Geometrie zu Grunde liegen,
On the Hypotheses which lie at the Bases of Geometry (written in 1854, but not published until 1868)
- <http://www.maths.tcd.ie/pub/HistMath/People/Riemann/Geom/WKCGeom.html>

Hiperbolikus fák, adatvizualizálás

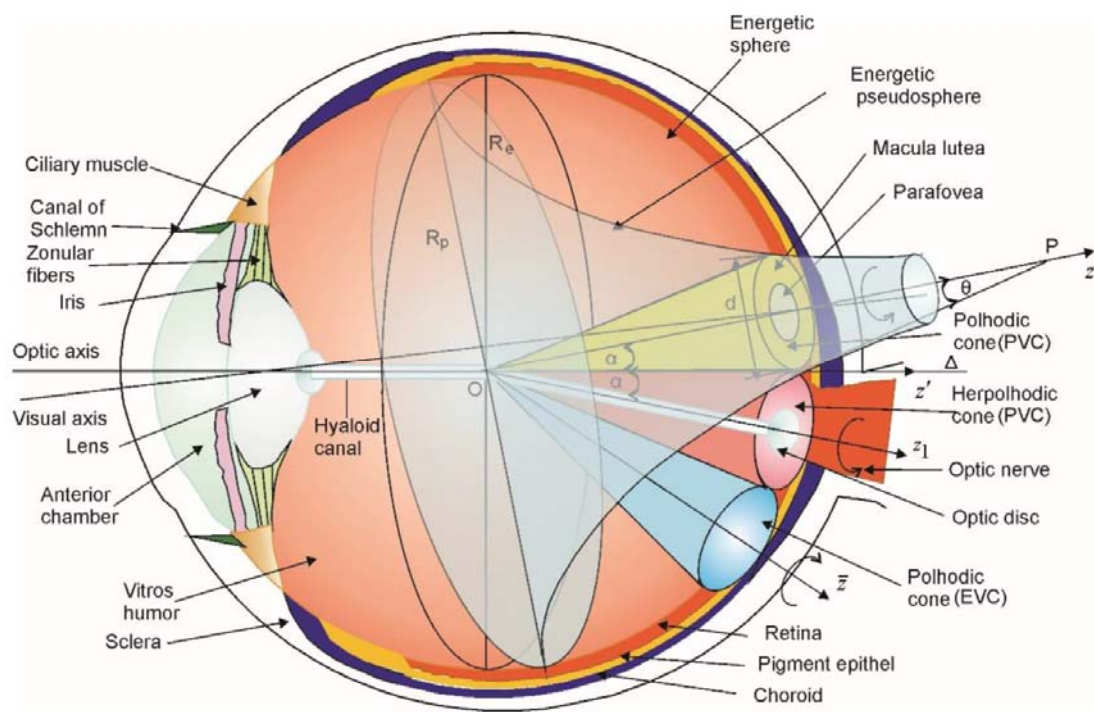




- Human Eye Optics within a Non-Euclidian Geometrical Approach and Some Implications in Vision Prosthetics Design

<https://pubmed.ncbi.nlm.nih.gov/33557081/>, 2021

[https://www.researchgate.net/publication/349047364_Human Eye Optics within a Non-Euclidian Geometrical Approach and Some Implications in Vision Prosthetics Design](https://www.researchgate.net/publication/349047364_Human_Eye_Optics_within_a_Non-Euclidian_Geometrical_Approach_and_Some_Implications_in_Vision_Prosthetics_Design), 2024



- Hyperbolic Representation of Global Structure of Visual Space, Journal of Mathematical Psychology, Volume 41, Issue 1, March 1997, Pages 89-98,

<https://www.sciencedirect.com/science/article/abs/pii/S0022249697911512>







„Valaki mondja már meg. Találkoznak vagy nem az egyenesek a végtelenben?”

- Vannak mérhető adatok?
- Bizonyítható valamelyik állítás?
- Van gyakorlati jelentősége annak, hogy mi a döntés?
- Van hatása a gondolkodásunkra?

- Trepszker, Z. (2002). Nem euklideszi geometriák az iskolában. *Iskolakultúra*, 12(12), 97–108. Elérés forrás:
- <https://www.iskolakultura.hu/index.php/iskolakultura/article/view/19767>



- Bilteanu L. és munkatársai: Human Eye Optics within a Non-Euclidian Geometrical Approach and Some Implications in Vision Prosthetics Design, 2024.
https://www.researchgate.net/publication/349047364_Human_Eye_Optics_within_a_Non-Euclidian_Geometrical_Approach_and_Some_Implications_in_Vision_Prosthetics_Design
- Chen Ch.: Information visualization 2010.
https://www.researchgate.net/publication/227643280_Information_visualization
- González J. M. : The Hyperbolic Vision in Humans and Other Animals, 2021.
<https://www.ijsr.net/archive/v10i10/SR211023003323.pdf>
- Hesberger Z. és munkatársai: Hyperbolic Trees in Complex Networks , 2018.
https://real.mtak.hu/119179/1/Hyperbolic_Trees_in_Complex_Networks.pdf
<https://ematlap.hu/tudomany-tortenet-2017-09/554-olah-gal-robert-gauss-es-bolyai>
- Indow T.: Hyperbolic Representation of Global Structure of Visual Space, Journal of Mathematical Psychology, Volume 41, Issue 1, March 1997, Pages 89-98
<https://www.sciencedirect.com/science/article/abs/pii/S0022249697911512>
- Molnár Z. G. Könyvismertetés: Torkel Franzén: Gödel nemteljességi tételei Értelmezések és félreértések, TypoTeX, 2013.
<https://ematlap.hu/index.php/konyvespolc-2017-06/517-godel-nemteljessegi-tetelei-ertelmezések-es-felreertések>
- Oláh Gál R.:Gauss és Bolyai János — újraértékelve, 2017.
<https://ematlap.hu/tudomany-tortenet-2017-09/554-olah-gal-robert-gauss-es-bolyai>
- S.Nagy Katalin: Életfa, világfa, Tree of Life, World Tree, 2021.
https://epa.oszk.hu/02300/02316/00022/pdf/EPA02316_kaleidoscope_2021_22_389-403.pdf
- Shirky, C.: Information Visualization: Graphical Tools for Thinking about Data, Edventure, 2002. <http://www.edventure.com>, in Hungarian:
<http://www.pointernet.pds.hu/ujsagok/evilag/2003/01/evilag-06.html>
- Smith E.: History of Mathematics, Vol. I (Dover Books on Mathematics), 1923.
A könyv olvasható:
https://www.hlevkin.com/hlevkin/90MathPhysBioBooks/mathHistory/Smith_History-Of-Mathematics-Vol1_1923.pdf
- Tóth Imre: A szubjektum és szabadsága · A matematika alapjairól, 2008.
https://www.ponticulus.hu/rovatok/hidverok/inmem_tothimre.html#gsc.tab=0

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