

AN INTRODUCTION TO THE TRADITION OF SACRED GEOMETRY

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The Renaissance

15th 16th Centuries

Dian Curtis - 2011



Pazzi Chapel

Filippo Bruneleschi 1429 - 1462





Filippo Bruneleschi 1429 - 1462







Pazzi Chapel

Filippo Bruneleschi 1429 - 1462



Filippo Bruneleschi 1429 - 1462





Ospitale del Innocenti

Filippo Bruneleschi



































Shepherds in Arcadia by Nicholas Poussin 1638



A Seaport at Sunrise by Claude Lorraine 1674

"The Age of Revolution"



The Eighteenth Century

Mathematical Discovery in 1753





Mathematical Discovery in 1753

Over two thousand years after the design and construction of the Parthenon, an eighteenth-century mathematician who was casually playing with the numbers from the Fibonacci Sequence came to the realization that encoded in this summation series is an ever more accurate numerical approximation of the **Golden Mean**.

X,Y	X/Y	Y/X
1,1	1	1
1,2	0.5	2
2,3	0.666	1.5
3,5	0.60	1.666
5,8	0.625	1.60
8,13	0.6153	1.625
13,21	0.6190	1.6153
21,34	0.6176	1.6190
34,55	0.61818	
1.6176		
55,89	0.61797	1.61818



Death of Wolfe by Benjamin West



Death of Socrates by Jacques-Louis David - 1787



Influencial Masons

There are some who, in response to the influence of the Masons, have gone so far as to suggest that the American Revolution was actually a Masonic experiment in ideas of government that, in turn, were rooted in ancient mystical traditions. Whether or not there is any substance to this particular claim it is certainly easy to substantiate the fact that Freemasons were prominent in the Revolution and made critical and formative contributions. Among the most visible of these Masons were George Washington, John Hancock, John Marshall, Baron Von Steuben, the Marquis de Lafayette, and (for the conspiracy theorists among us) all of the British generals. Not only did St. Andrews Masonic Lodge play an important role in the Boston Tea Party at the beginning of the conflict, but the very first oath of office was administered to a mason (George Washington) by a Grand Master on a bible from St. Johns Masonic Lodge #1 of New York.


Political Transformations

It was during this century that the **Brotherhood of Freemasons**, with the opening of the London Grand Lodge (1717), came to possess <u>considerable political</u> <u>influence</u>. The guiding principles of this secret society were rooted in **liberty**, equality, **brotherhood**, and **the rights of man**. As the century unfolded Freemasons were among the leaders who initiated sweeping social and political transformations that forever changed the face of western society.



The Great Seal of the United States of America

A dwelling place for the Infinite in the realm of space and time



The All-Seeing Eye of Divine Providence



stars





The real DaVinci code?



















The interest in the revolutionary principles of liberty, equality, and brotherhood soon contributed to sweeping social and political transformations in France, South America, Texas and Mexico. <u>Freemasons</u> again played crucial roles in each of these political revolutions. Among them were **Simon de Bolivar**, **Jose de San Martin**, **Benito Juarez**, and **Sam Houston**.

Nineteenth Century



The Grand Odalesque by Jean-Dominique Ingres 1814



Pollice Verso (thumbs down) by Jean-Leon Gerome - 1872



SIN by Franz von Stuck 1893





In **1835** a botanist observed that the seeds in the center of a sunflower are arranged in two sets of multiple spirals that begin in the center and curve outward in opposite directions.

In 98% of all sunflowers the number of spirals for both directions are successive Fibonacci Numbers



The largest sunflower on record had 144 spirals in one direction and 233 in the other

1835

With the discovery of **Fibonacci Sequence** numbers within the swirls in sunflowers science had <u>again</u> established a concrete connection between a natural growth pattern and the mystical mathematical tradition identified with **Pythagoras** that held that the dynamic generating force of the universe was accessible through the study of number and shape. (it had been in **1753** that the relationship had been observed in the generation pattern of bees) This discovery was the first of progressively large number of observations that have validated the presence of this long revered unifying principle as the common proportion underlying the multiplicity of forms in nature.





The **Golden Mean** grid on the right is identical to the grid used in the four tooth set up in the picture above as well as that in the progressively diminishing proportions of the fern on the left.





















In contrast to popular belief and just about every book and website on the subject, the Nautilus shell growth ratio, though equiangular and incredibly beautiful, does not match that of the Golden Mean spiral

Back to Basics

Perhaps in response to the discoveries being made by science concerning the golden mean or perhaps in response to a general increase in interest in spirituality in the latter half of the nineteenth-century <u>artists began to challenge the theatrical</u> <u>superficiality that had come to dominate popular art.</u> These artists not only utilized **Phi** as a compositional formula but seemed determined once again to incorporate it in ways that reflect a conscious return to a simpler and yet more profound understanding of the Golden Mean's spiritual resonance, visual effectiveness and timeless harmony.



Heaving of Coals by Moonlight by Joseph Mallord William Turner - 1835



Impression Sunrise by Claude Monet 1872



The Gross Clinic by Thomas Eakins - 1875



"La Parade" by Georges Seurat - 1887-88



Crows over a Cornfield by Vincent Van Gogh - 1890



The Pepermint Bottle by Paul Cezanne - 1894

Twentieth Century








Burgoyne Diller 20th Century American











New York Movie by Edward Hopper - 1939





The Pentagon























Fibonacci Sequence 1-55 by Mario Mertz - 1994 Turku Power Station, Finland

31 5 30

21 34 55





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Elliot Wave Theory

CHAOS THEORY Benoit Mandelbrot

A *fractal* is any visual pattern that reveals infinitely <u>greater</u> <u>complexity as it is enlarged</u>. Thus, fractals graphically portray the notion of "worlds within worlds" which has obsessed Western culture from its beginnings. With fractals the closer you come, the more detail you see. <u>Infinity is explicit and graphically</u> <u>manifest in fractals</u>.

Whether generated by computers or natural processes, all fractals are spun from what scientists call a "positive feedback loop." Something--data or matter--goes in one "end," undergoes a given, often very slight, modification and comes out the other. Fractals are produced when the output is fed back into the system as input again and again.

Zooming in on the Mandelbrot Set




























Mandelbrot Set





Hurricane Andrew - August 1992



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Hurricane Andrew - August 1992

Neighboring Spiral Gallaxy



A dwelling place for the Infinite in the realm of space and time



Tracing a Mystical Path

The aim of all initiatory spiritual traditions is to find a way back through the bewildering multiplicity of the world to the **Unity** of the source.

"Man is made in the image and likeness of God." Baltimore catechism, 1884

"E Pluribus Unum"

Great Seal of the United States of America

"The human body is beautiful because it is the expression of the order found in the universe."

Vitruvius

"If the doors of perception were cleansed, man would see everything as it is; Infinite."

William Blake



The Tradition of Sacred Geometry

We have now come to the end of our investigation of this simple yet profound mathematical mystery. Hopefully the evidence put before you has satisfactorily, as promised, verified, quantified, and substantiated the wonderfully joyous news that we are, indeed, "one with all things of heaven and the earth" and that "everything that lives, lives not alone nor for itself."