## GOLDEN RATIO

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## WHAT IS GOLDEN RATIO?



The golden ratio is also called the golden mean or golden section (Latin: sectio aurea). Other names include extreme and mean ratio, medial section, divine proportion, divine section (Latin: sectio divina), golden proportion, golden cut, and golden number.
In mathematics, two quantities are in the golden ratio if their ratio is the same as the ratio of their sum to the larger of the two quantities. The figure on the right illustrates the geometric relationship. Expressed algebraically, for quantities $a$ and $b$ with $a>b>0$,

"Elements" by Euclid

porta thatl domini dicta spectosa

"De Divina Proportione" by Luca
Pacioli, a contemporary of Leonardo Da Vinci

DAN BROWN

"The Da Vinci Code" by Dan Brown

The allure of "The Da Vinci Code" was that it creatively integrated fiction with both fact and myth from art, history, theology and mathematics, leaving the reader never really knowing what was truth and what was not.

## MATHEMATICS OF THE GOLDEN RATIO

- This Golden Ratio truly is unique in its mathematical properties and pervasive in its appearance throughout nature. The "mathematically challenged" may be more interested in the appearances of Phi in nature, its application to art, architecture and design, and its potential for insights into the more spiritual aspects of life, but let's begin with the purest of facts about Phi, which are found in mathematics.

- Pi or $\pi(3.14 \ldots)$ is the ratio of the circumference of a circle to its diameter, Phi or $\varphi(1.618 \ldots)$ is the Golden Ratio that results when a line is divided in one very special and unique way.

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A=1.000 = B+C
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## GEOMETRY OF THE GOLDEN RATIO



## THE SOLAR SYSTEM AND UNIVERSE



## ALL SOLAR SYSTEM PERIODS

Fit The Fibonacci Series And The Golden Ratio
$\left.\begin{array}{|lcc}\hline \text { PLANETS }\end{array} \begin{array}{c}\text { LUCAS } \\ \text { Synodics }\end{array} \begin{array}{c}\text { Peries }\end{array} \begin{array}{c}\text { PHI-SERIES } \\ \text { Periods }\end{array}\right\}$

| PHI-SERIES PERIOD Decomposition | FIBON Series |
| :---: | :---: |
| $\boldsymbol{\sigma}^{1}=1 \varnothing+0 \varnothing^{2}$ | 1 |
| $\emptyset^{2}=0 \varnothing+1 \varnothing^{2}$ | 2 |
| $\varnothing^{3}=1 \varnothing+1 \sigma^{2}$ | 3 |
| $\varnothing^{4}=1 \varnothing+2 \sigma^{2}$ | 5 |
| $\varnothing^{5}=2 \varnothing+3 \varnothing^{2}$ | 8 |
| $\varnothing^{6}=3 \varnothing+5 \boldsymbol{\sigma}^{2}$ | 13 |
| $\varnothing^{7}=5 \varnothing+8 \varnothing^{2}$ | 21 |
| $\varnothing^{8}=8 \varnothing+13 \varnothing^{2}$ | 34 |
| $\varnothing^{9}=13 \varnothing+21 \varnothing^{2}$ | 55 |
| ø ${ }^{10}=21 \varnothing+34 \varnothing^{2}$ | 89 |
| $\varnothing^{11}=34 \varnothing+55 \varnothing^{2}$ | 144 |


$\frac{a+b}{a}-\frac{a}{b}-1,68$
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## THANK YOU rer WATCHING!

