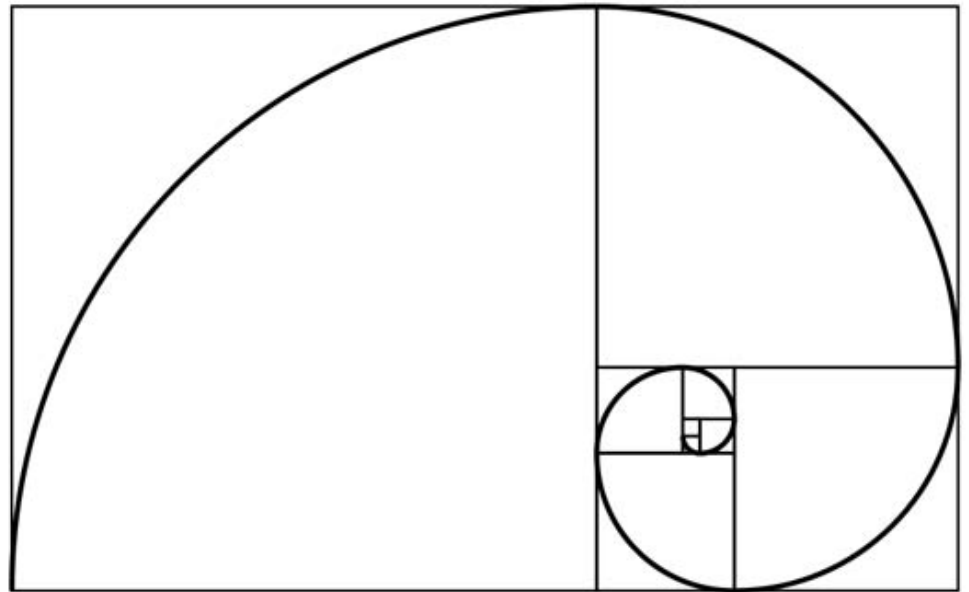


Basic Principles of Beauty (Golden Ratio)

APRECIATING ART IN LIFE

GOLDEN RATIO

Golden Ratio adalah sebuah perbandingan. Golden karena segala hal indah di alam semesta ini mengikuti perbandingan ini.



Rasio Emas

- “Rasio Emas”. Emas → kesempatan emas. Suatu angka spesial dalam matematika.
- Golden Ratio adalah bilangan irasional yang nilainya mendekati 1,618. angka ini sering muncul dalam konsep geometri, seni, arsitektur, hingga struktur makhluk hidup.
- Perbandingan.
- Sejak jaman Renaissance, banyak karya seni dan arsitektural yang menggunakan rasio emas ini. Mereka percaya bahwa penggunaan rasio ini menghasilkan komposisi estetis yang paling ideal.

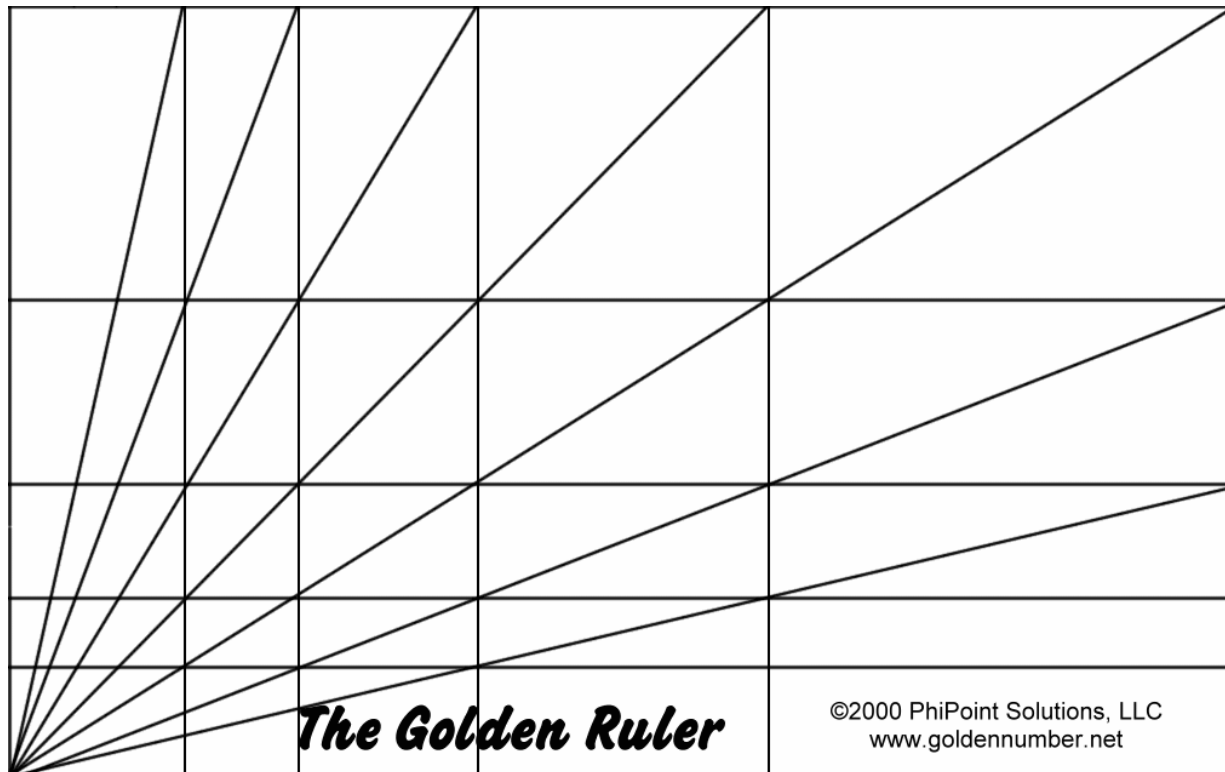
The Fibonacci

- Dikenal juga sebagai deret fibonacci dan banyak digunakan dalam matematika, pasar keuangan dalam berstrategi.
- Penjumlahan dua bilangan terdekat untuk mendapatkan barisan bilangan berikutnya. Contoh: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, 1597, 2584 dst....
- Ambil 6 angka berutan dalam deret Fibonacci dan susun secara berurutan sesuai dengan besarnya angka. Maka akan terbentuk Golden Ratio.

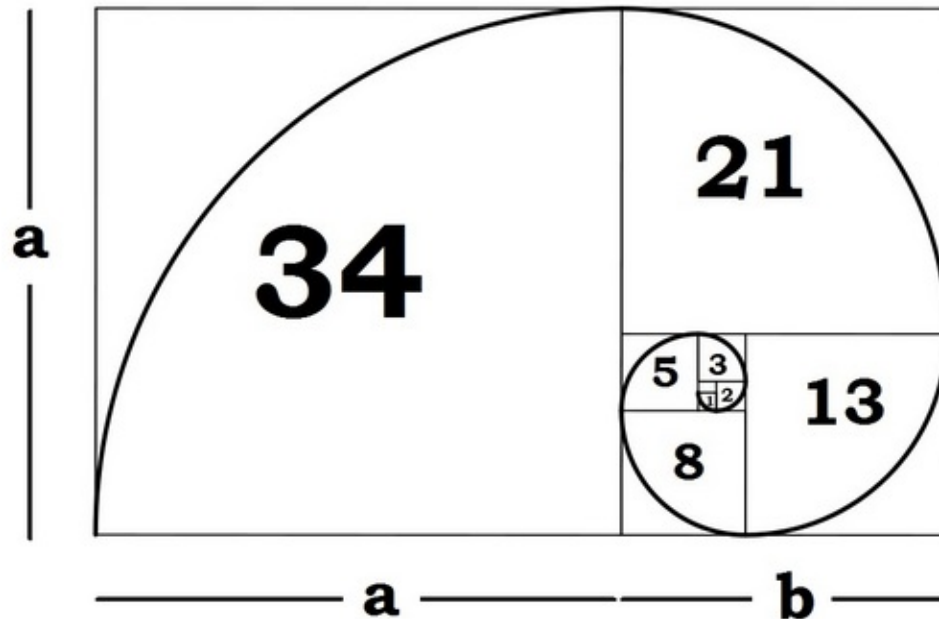
Deret Fibonacci

1 001/001	1
1 002/001	2
2 003/002	1.5
3 005/003	1.666666667
5 008/005	1.6
8 13/8	1.625
13 21/13	1.615384615
21 34/21	1.619047619
34 55/34	1.617647059
55 89/55	1.618181818
89 144/89	1.617977528
144 233/144	1.618055556

Golden Ratio Ruler

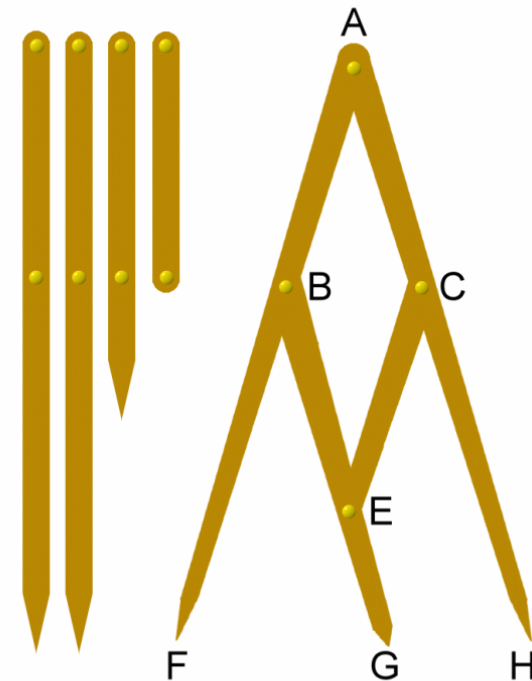


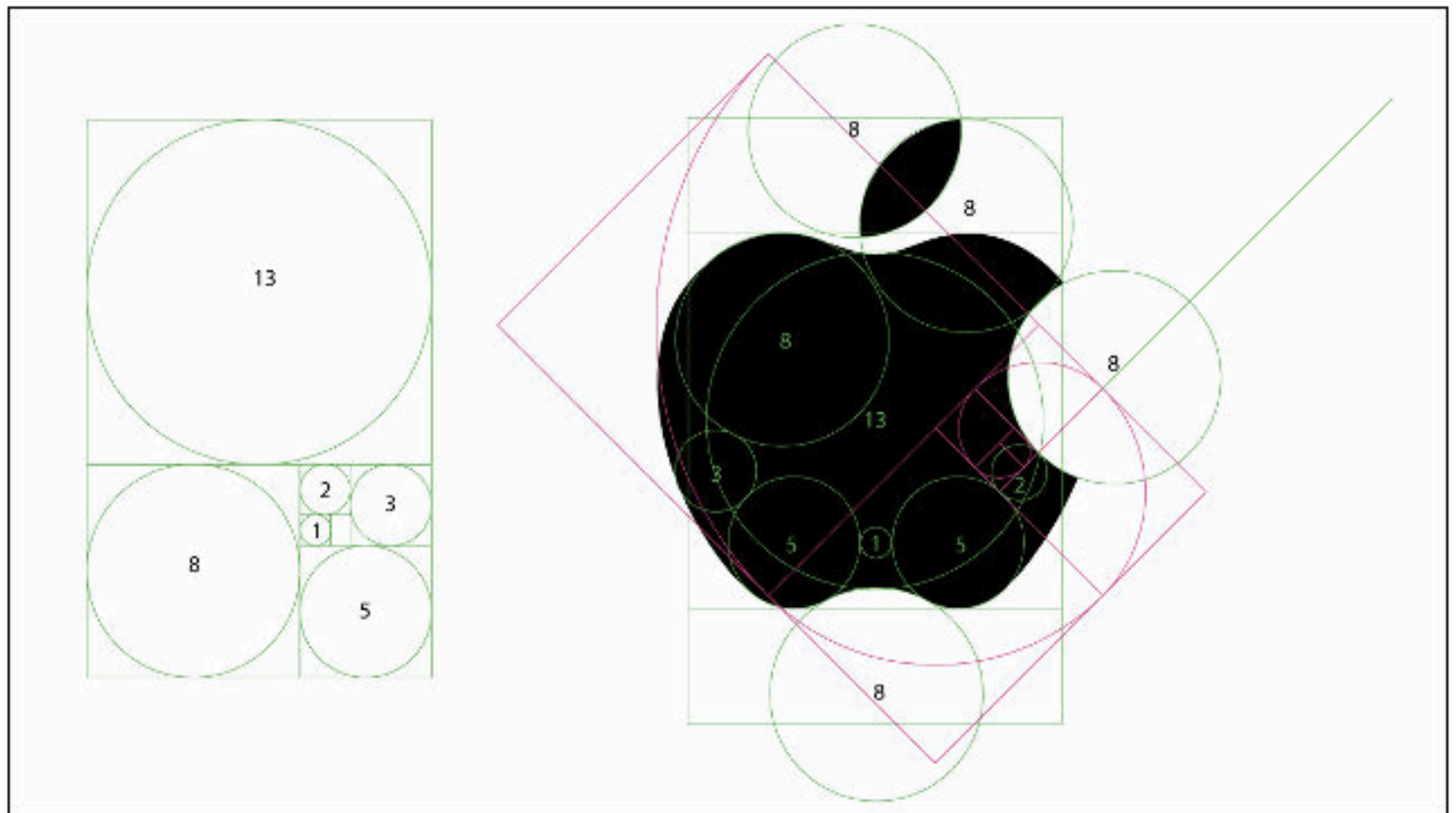
Golden Ratio Ruler



Golden Section Gauge

AF = AH = 340mm
BG = 210mm
AB = AC = BE = CE = 130mm
EG = 80mm





Dari gambar diatas jelas terlihat bahwa logo Apple terbuat dari beberapa lingkaran dengan perbandingan diameter 1, 2, 3, 5, 8, dan 13

Berikut ini merupakan link website yang menggunakan Golden Ratio atau pun Deret Fibonacci menurut beberapa disiplin ilmu

■ Accounting & Management :

■ <http://www.phimatrix.com/stock-market-analysis/>

■ Civil & Architecture :

■ <http://www.goldennumber.net/architecture/>

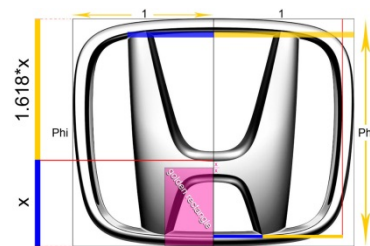
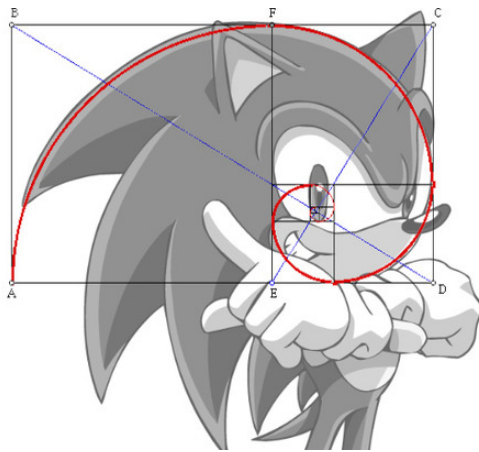
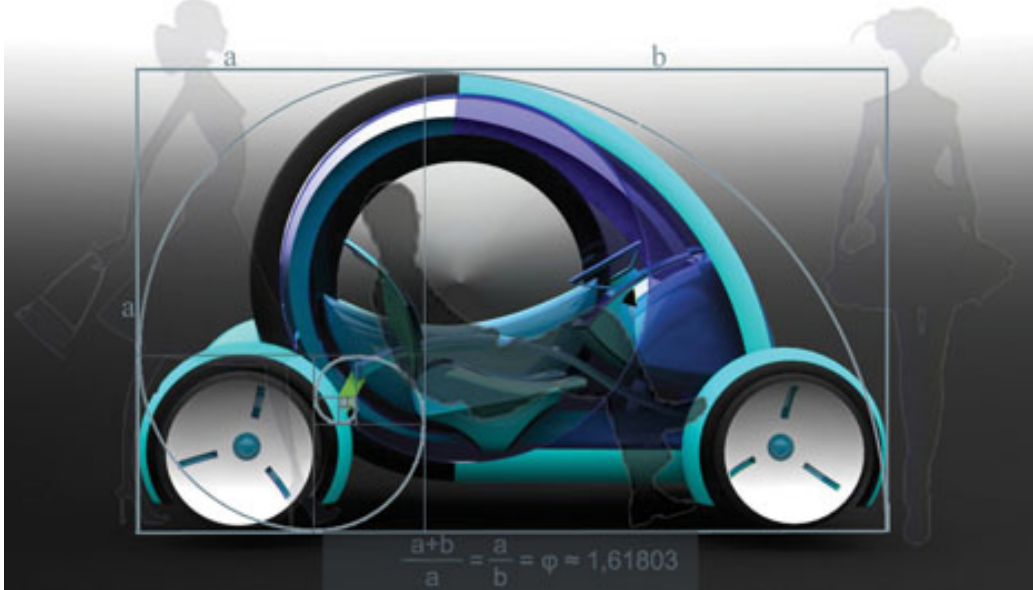
■ Product Design & Visual Design :

■ <http://www.phimatrix.com/product-design-golden-ratio/>

■ Psychology & perception :

■ <http://www.news.utoronto.ca/researchers-discover-new-golden-ratios-female-facial-beauty-0>

Product Design & Visual Design :



Sfaman AR11

HONDA

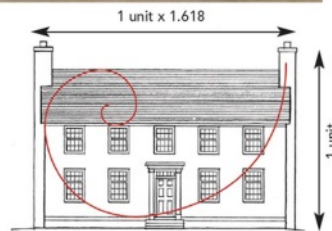
Civil & Architecture :



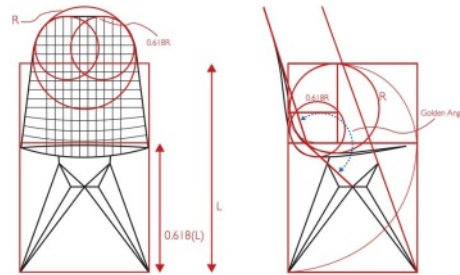
Golden Ratio in Modern Design



Media Console



Traditional House



Ames Wire Chair

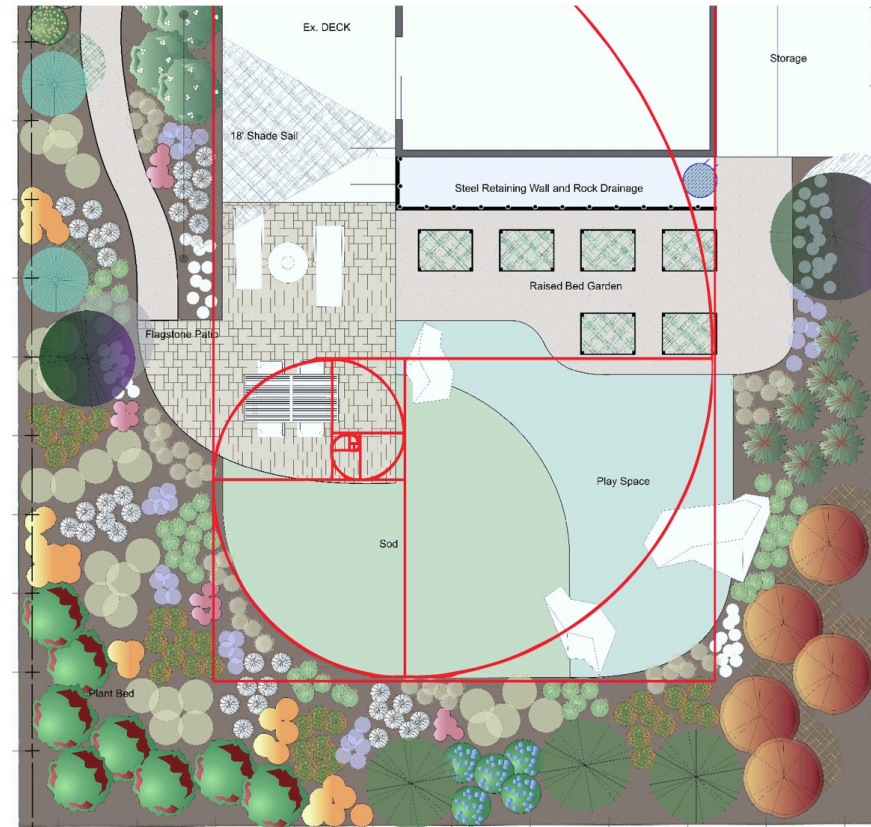


Light Fixtures

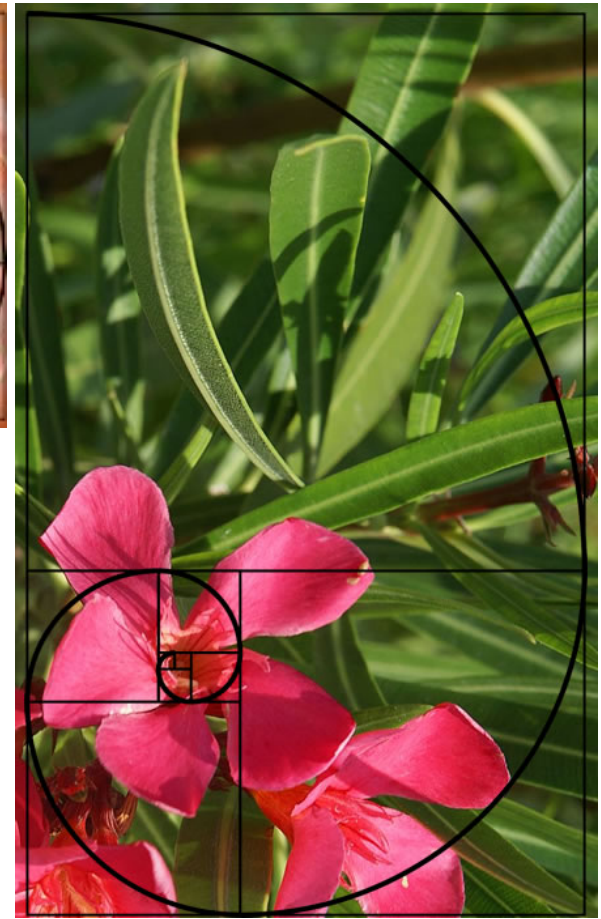
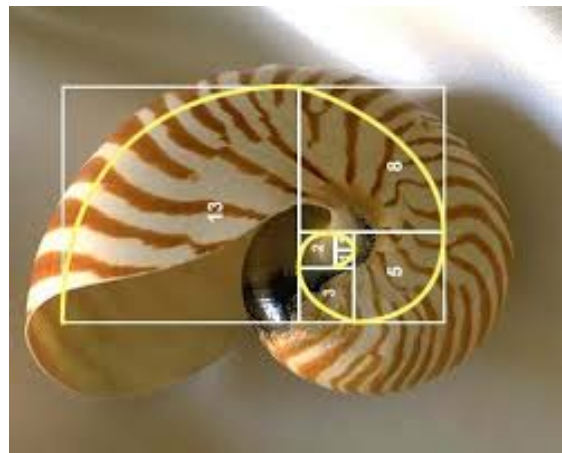
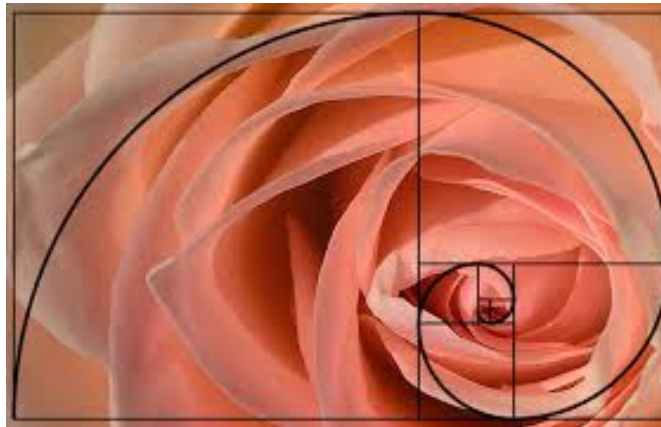
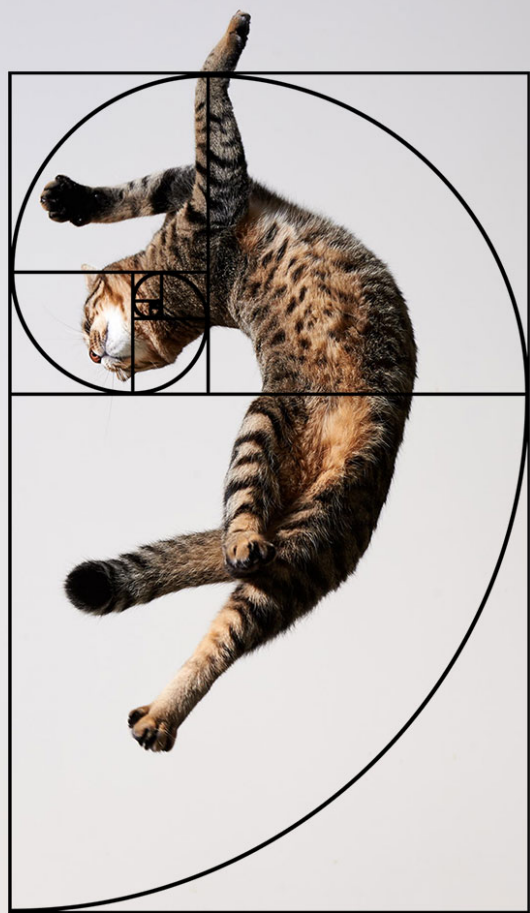


Cabinet by UTOPIA

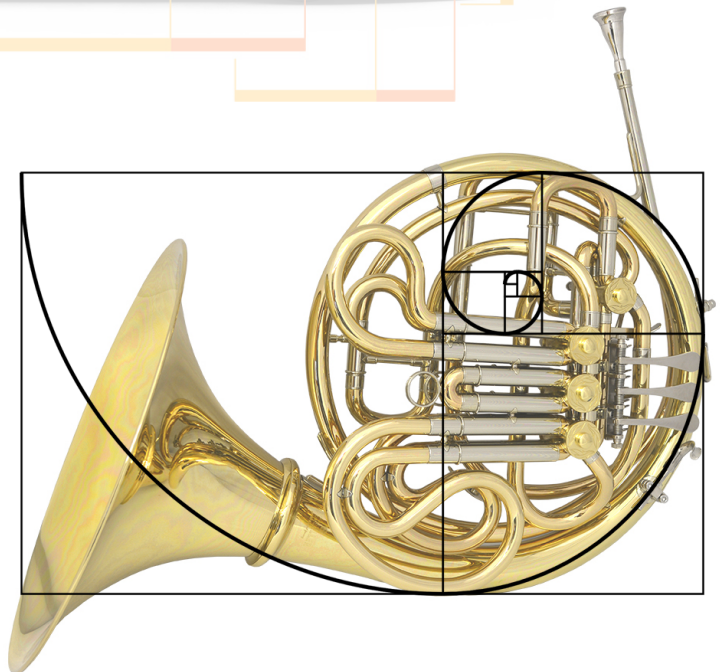
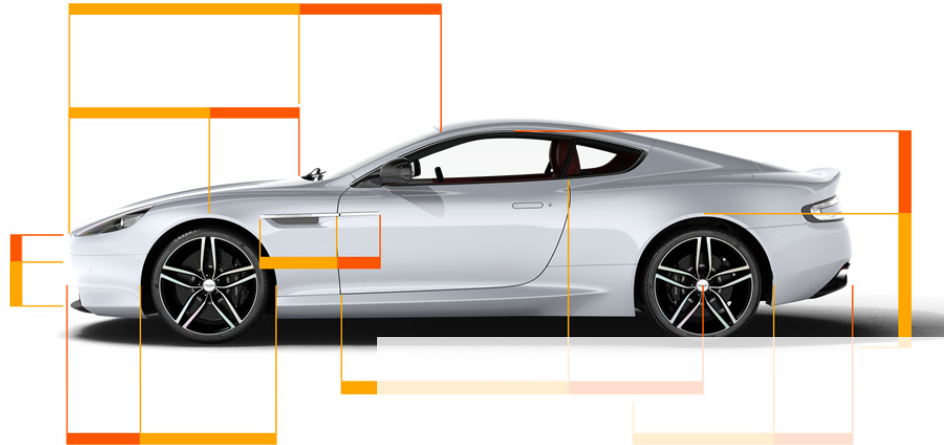
Golden Ratio dalam Landscape Design



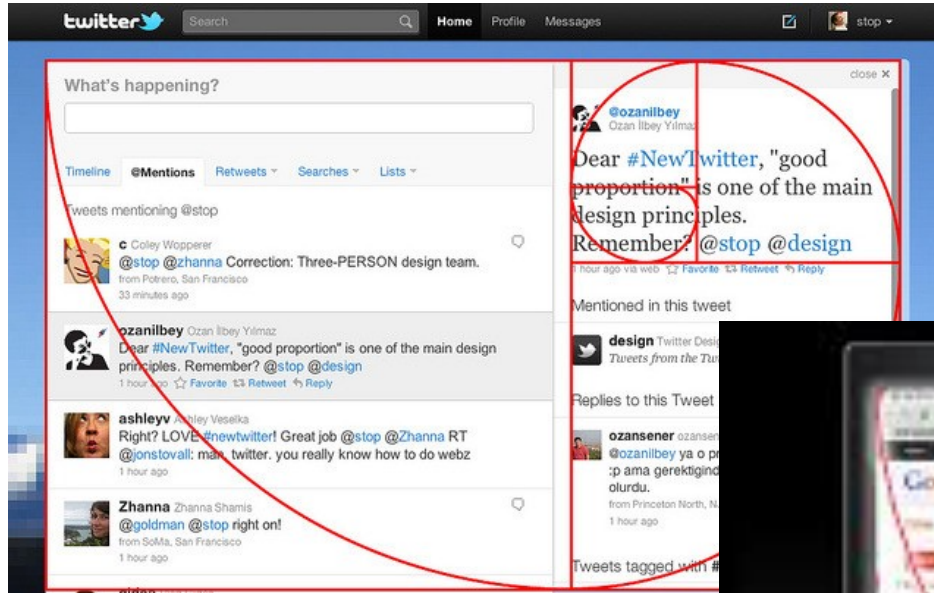
GOLDEN RATIO IN NATURE



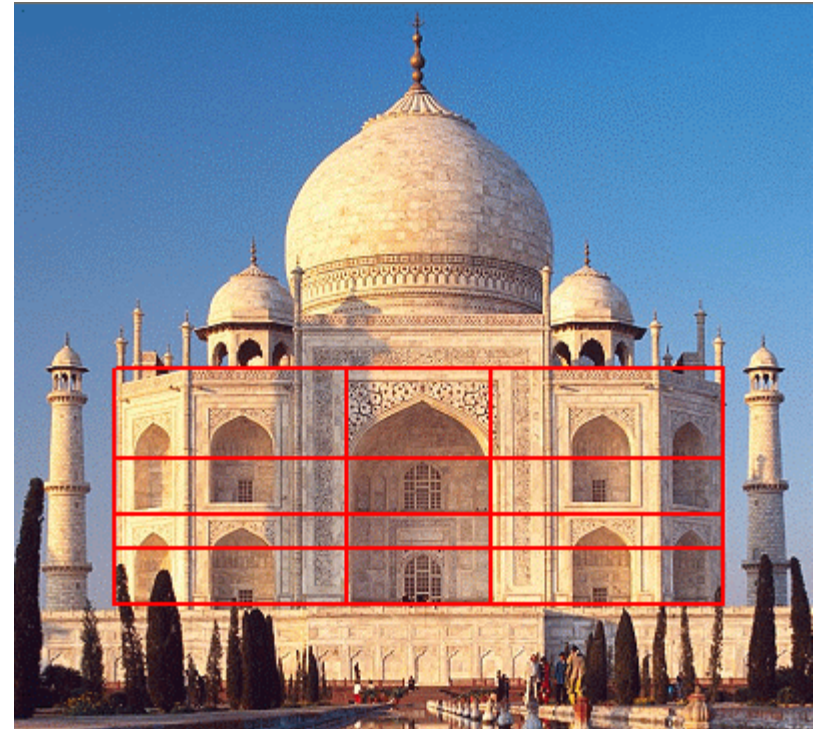
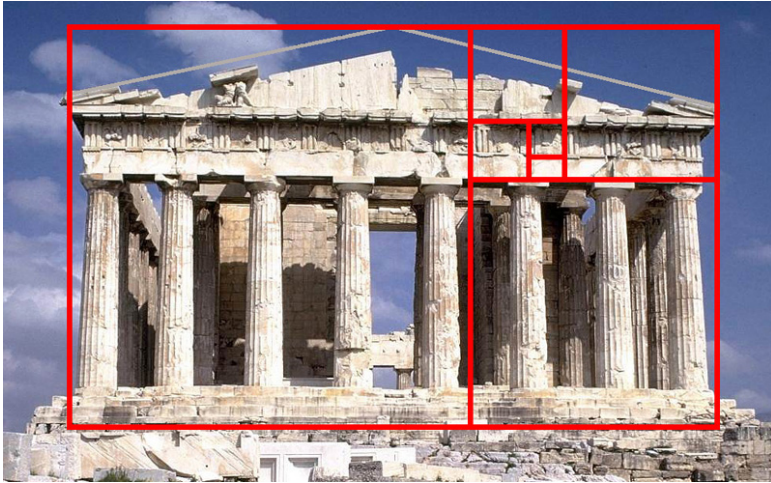
GOLDEN RATIO IN PRODUCTS



GOLDEN RATIO IN USER INTERFACE



GOLDEN RATIO IN ARCHITECTURE



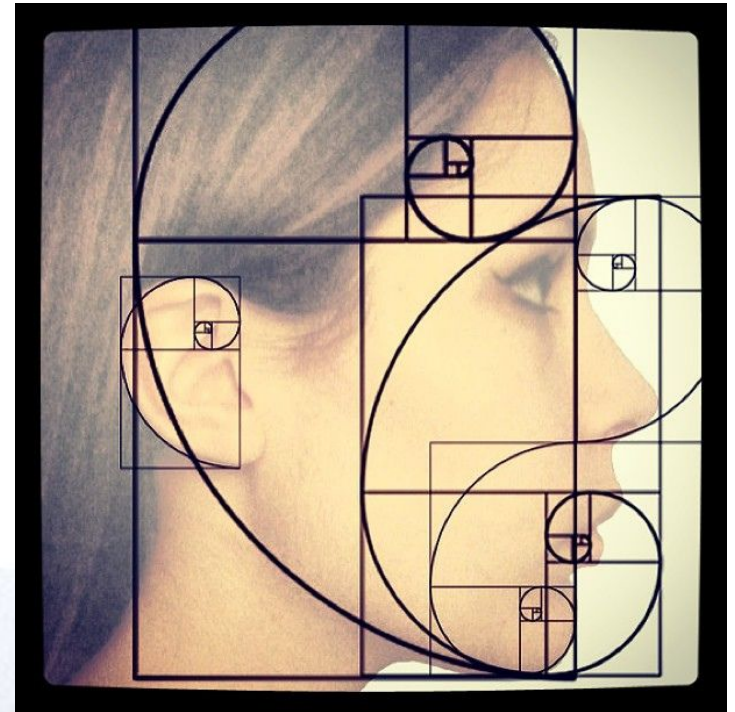
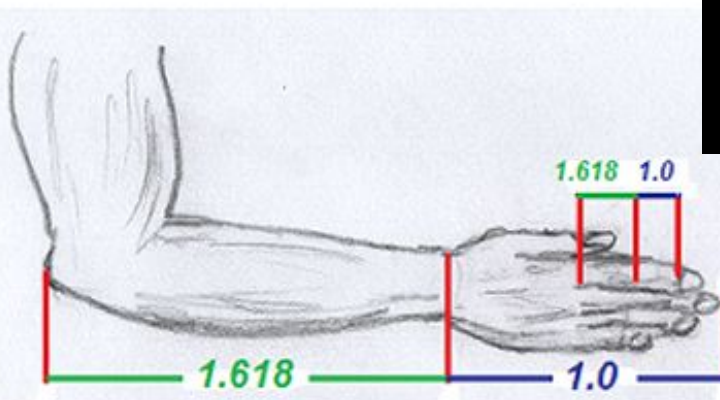
Golden Ratio in Outdoor Photography



Golden Ratio in Human Body

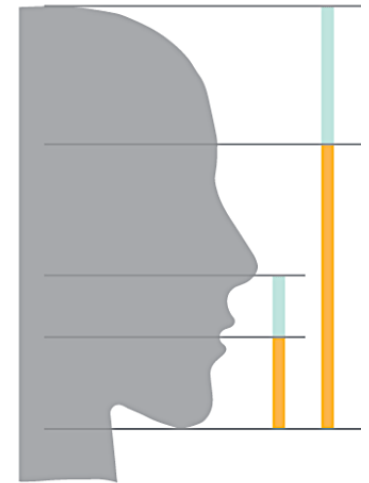
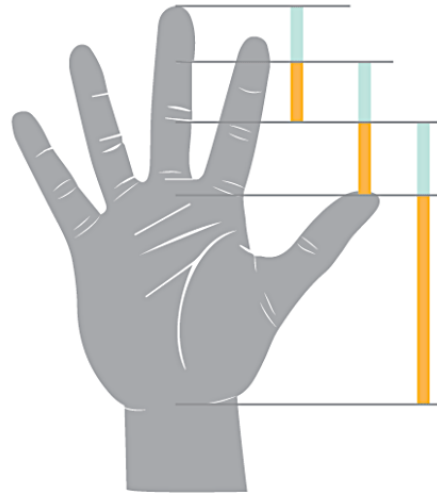
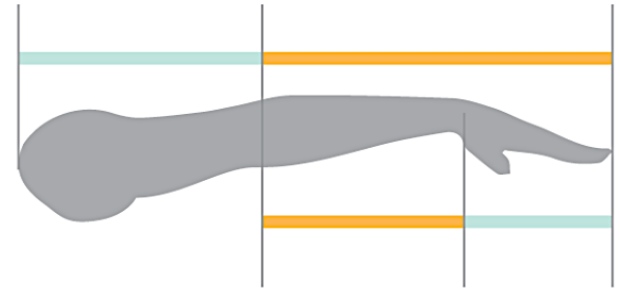
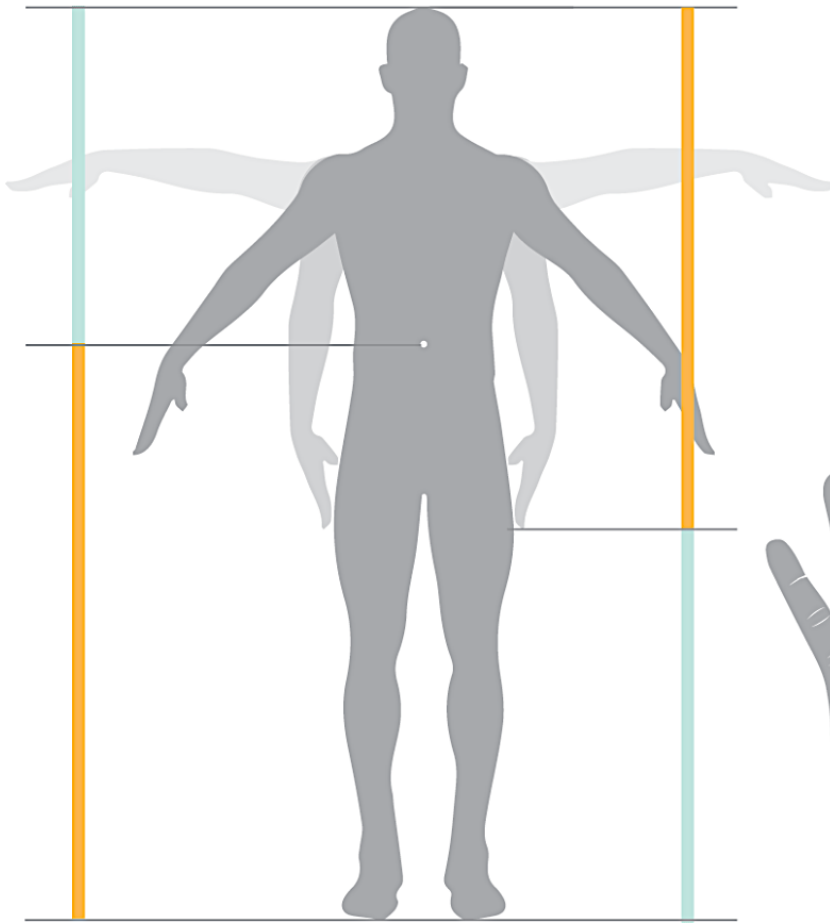
*The whole universe appears as
an infinite storm of beauty*

___John Muirs





$$\frac{(a+b)}{b} = 1.618$$



Melihat Video Tentang Golden Ratio

- Terlampir video Golden Ratio