

**GOD
IS
OMNIPRESENT**

ME



KARL

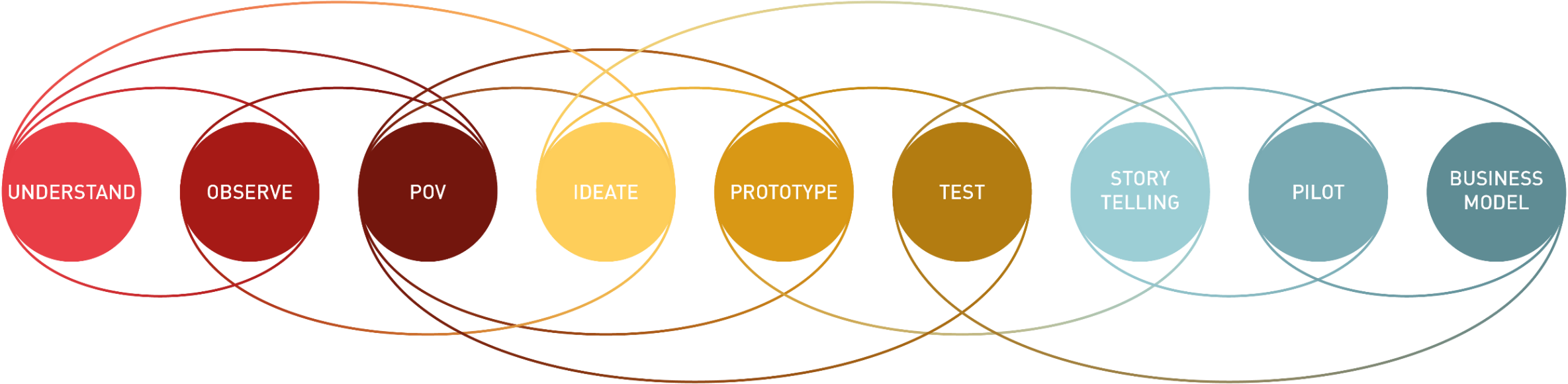




Process

Product

THE DESIGN THINKING PROCESS



INSPIRATION

IDEATION

IMPLEMENTATION

WILL = EFFECT

“...there is nonetheless to God no surplus of potency vis-à-vis his act, no unactivated potency...God’s potency is one, as his act is one, and in this one act his potency is completely actualized.”

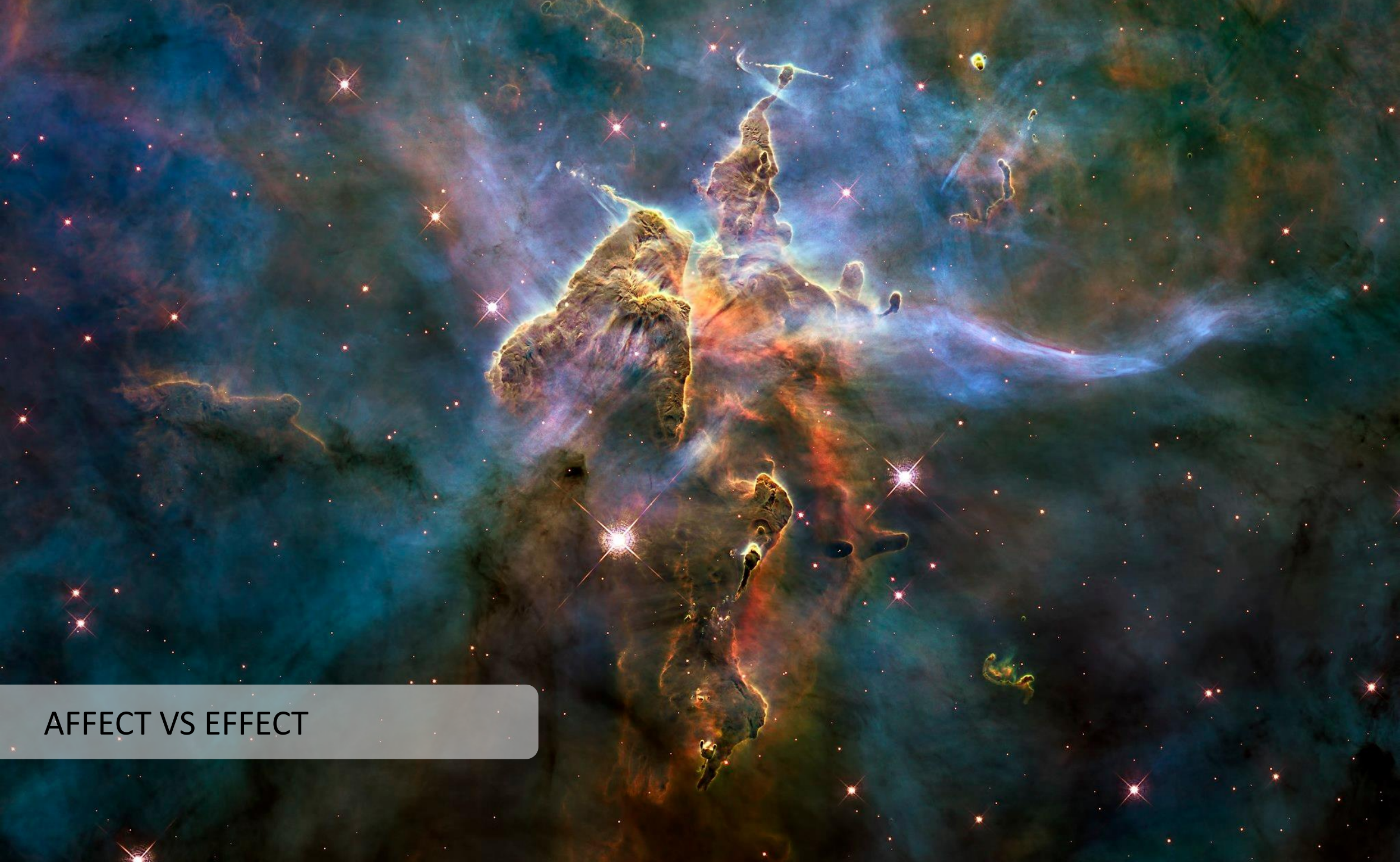
- Edith Stein

“Am I a God at hand, declares the LORD, and not a God far away? Can a man hide himself in secret places so that I cannot see him? declares the LORD. Do I not fill heaven and earth? declares the LORD.”

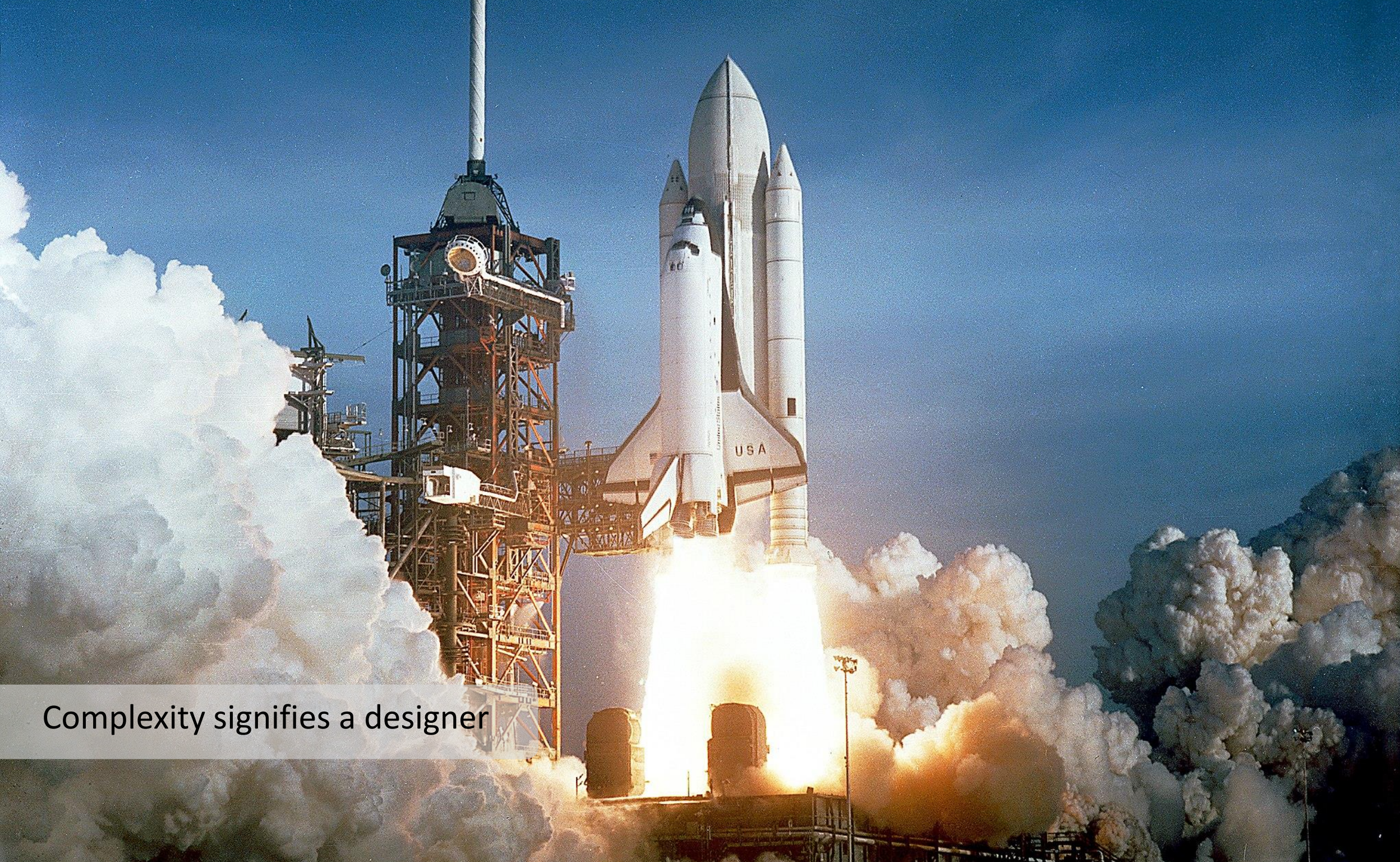
- Jeremiah 23:23–24

The earth is the Lord's and all it contains, the
world and those who dwell in it.

Psalm (24:1)



AFFECT VS EFFECT



Complexity signifies a designer



Design signifies intelligence



Interdependency



Unified aesthetics



General revelation

“that which is known about God is evident within them; for since the creation of the world His *invisible attributes*, His *eternal power* and *divine nature*, have been *clearly seen*, **being understood through what has been made**, so that they are without excuse.”

Romans 1:19-20

Invisible
Attributes

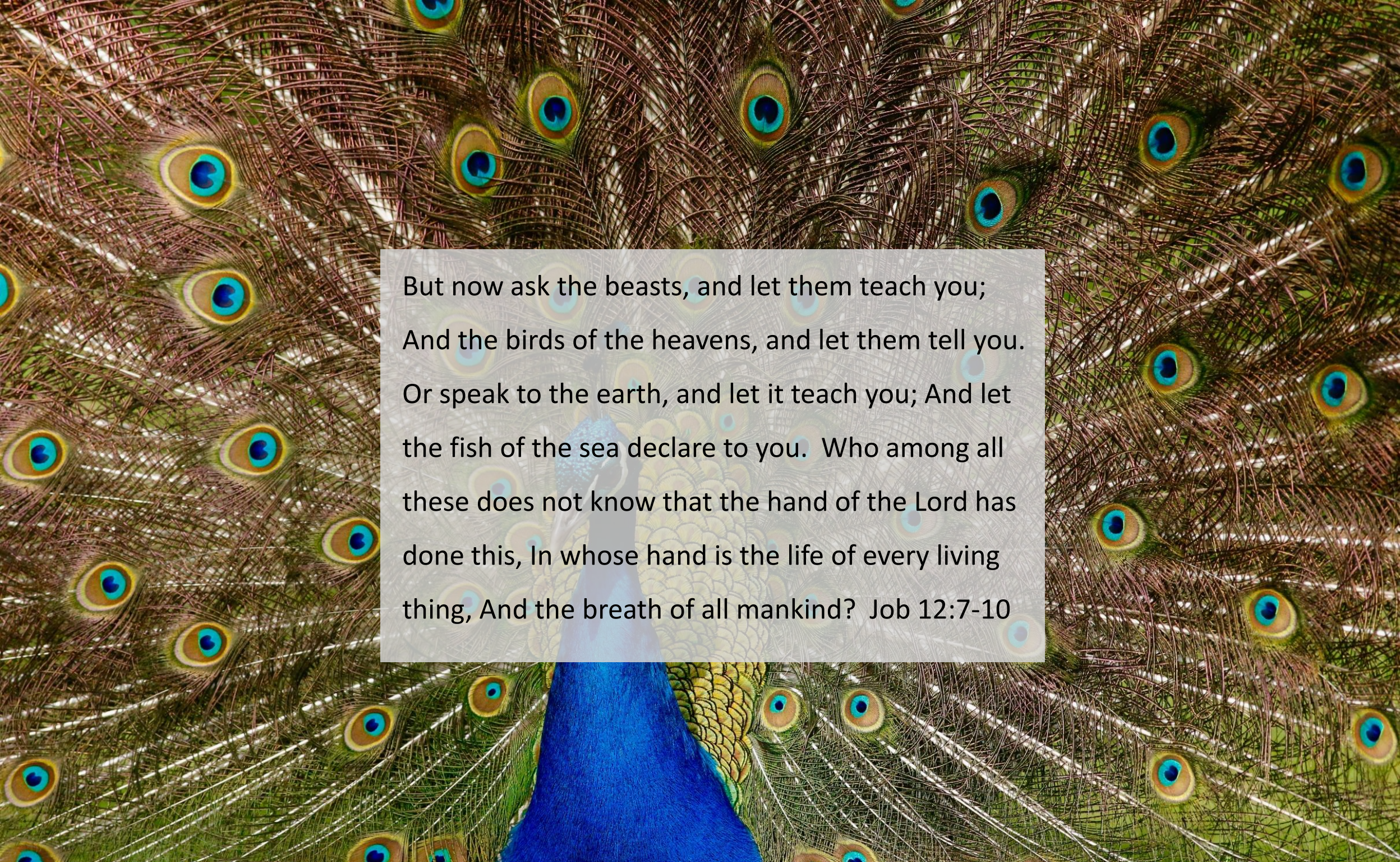
Divine
Nature

Eternal
Power

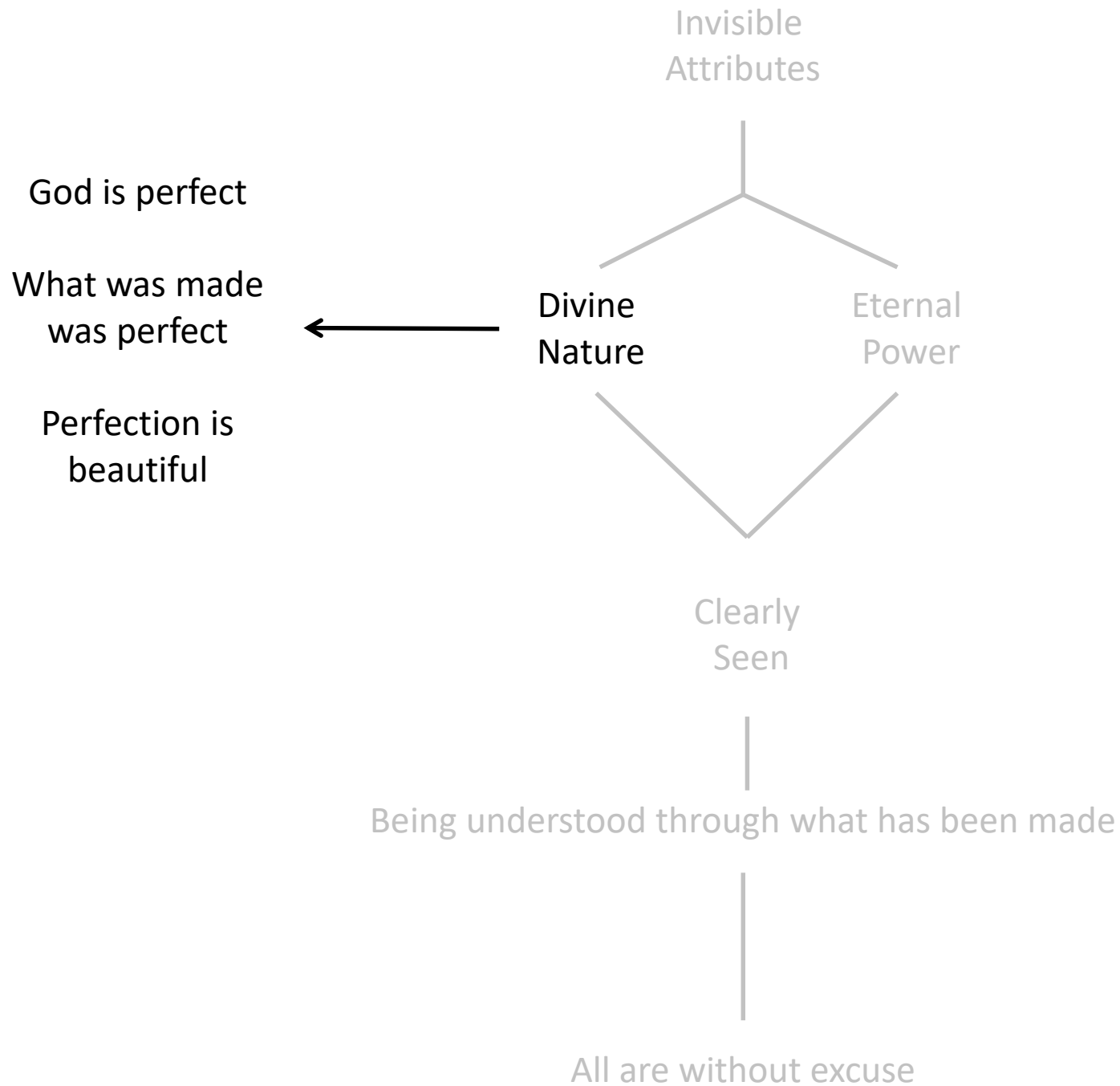
Clearly
Seen

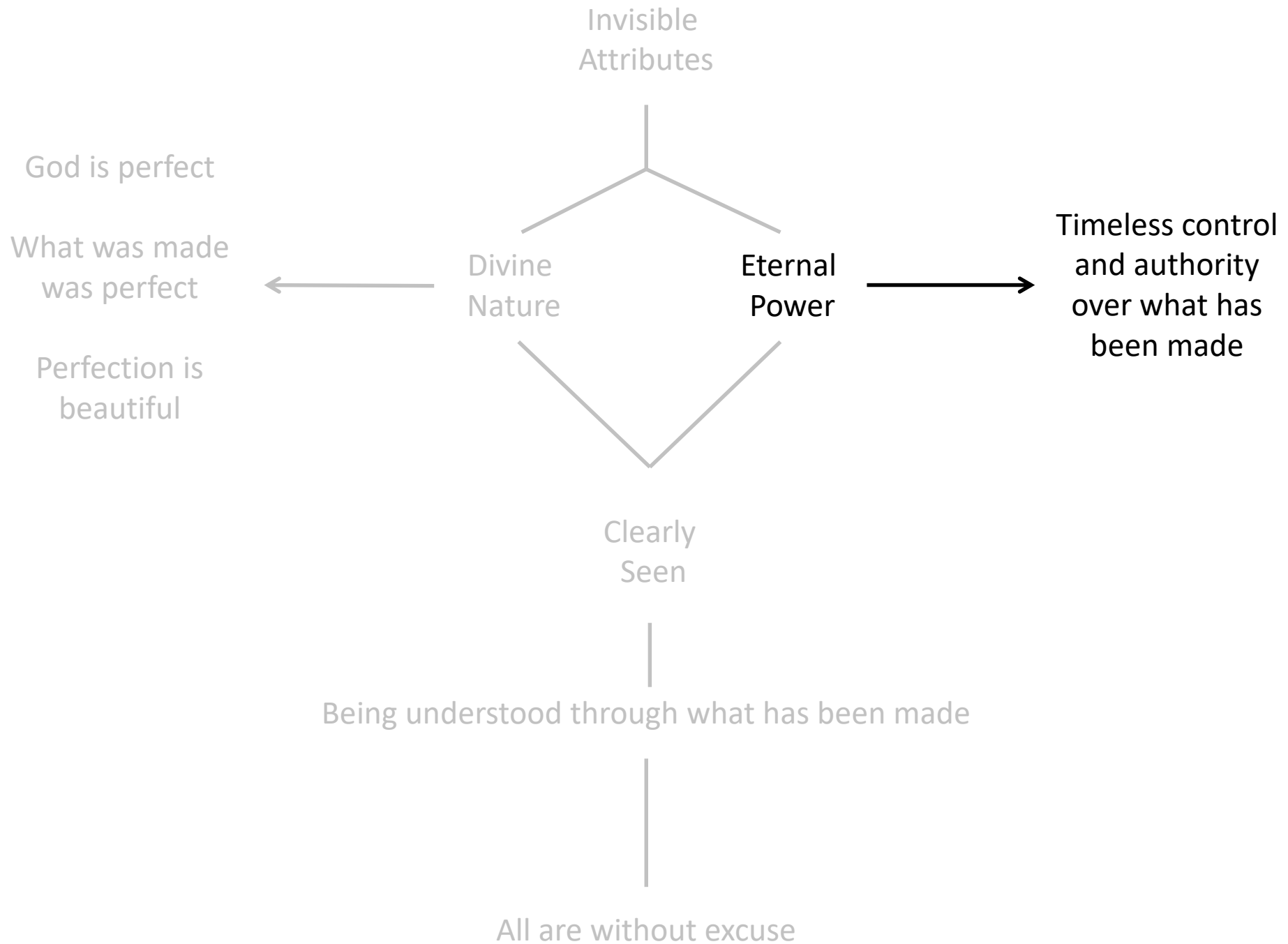
Being understood through what has been made

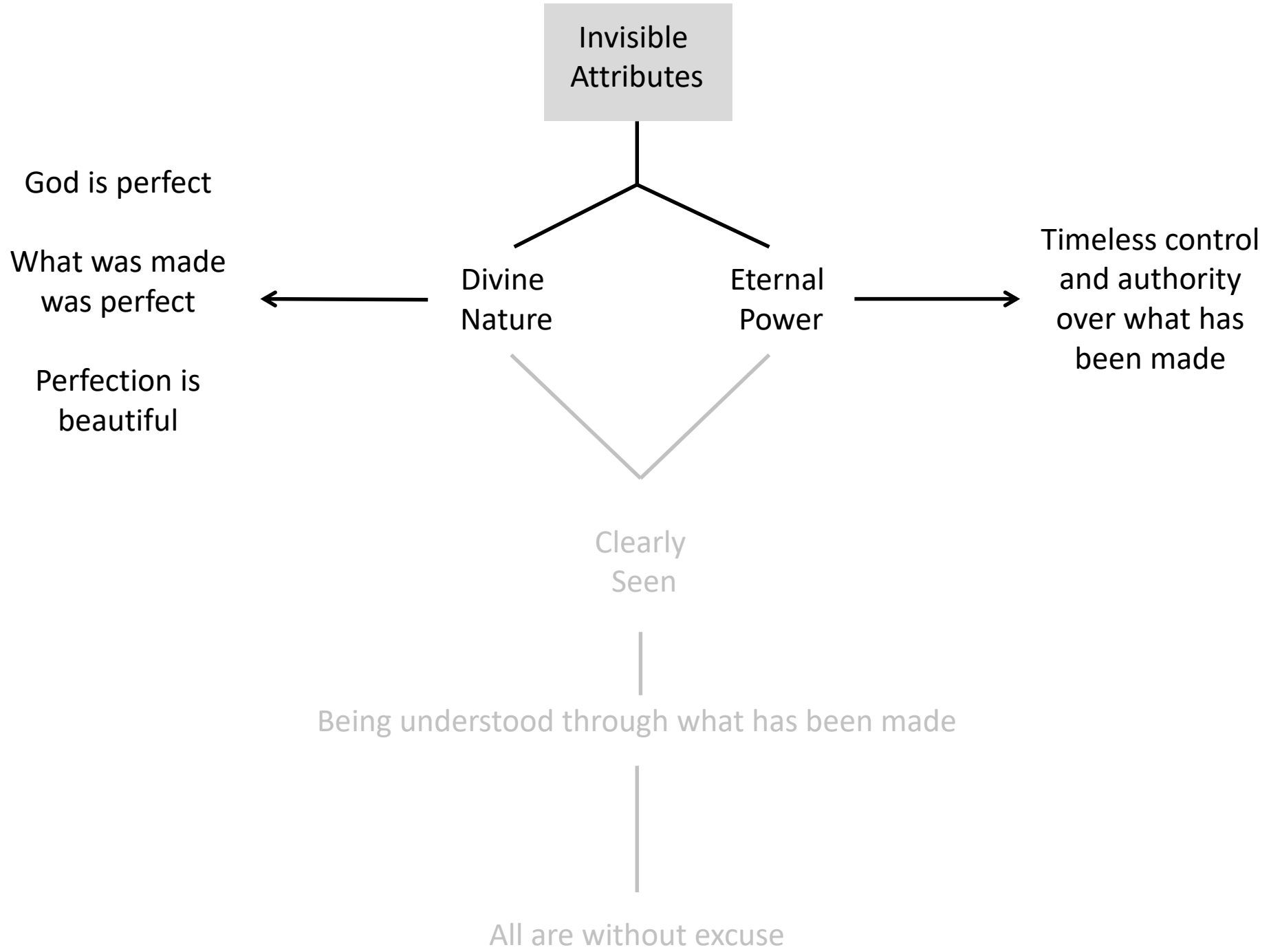
All are without excuse




But now ask the beasts, and let them teach you;
And the birds of the heavens, and let them tell you.
Or speak to the earth, and let it teach you; And let
the fish of the sea declare to you. Who among all
these does not know that the hand of the Lord has
done this, In whose hand is the life of every living
thing, And the breath of all mankind? Job 12:7-10









DESIGN = the intentional and rational arrangement of **elements** and **qualities** in a product or work

Divine Proportion

“I will not conceal his limbs,
His mighty power, or his graceful
proportions.”

Job 41:12



Divine Proportion

Golden ratio

Phi

Fibonacci sequence

Golden rectangle

Fibonacci spiral

Golden mean



Divine Proportion

Golden ratio

Phi

Fibonacci sequence

Golden rectangle

Fibonacci spiral

Golden mean



Divine Proportion

Golden ratio

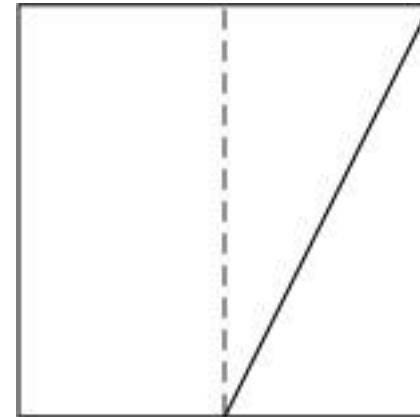
Phi

Fibonacci sequence

Golden rectangle

Fibonacci spiral

Golden mean



Divine Proportion

Golden ratio

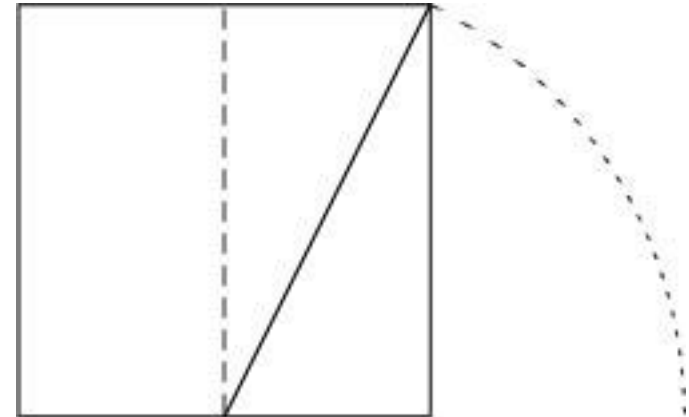
Phi

Fibonacci sequence

Golden rectangle

Fibonacci spiral

Golden mean



Divine Proportion

Golden ratio

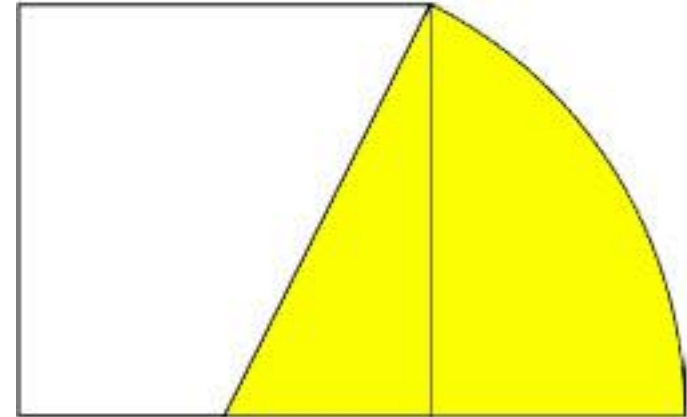
Phi

Fibonacci sequence

Golden rectangle

Fibonacci spiral

Golden mean



Divine Proportion

Golden ratio

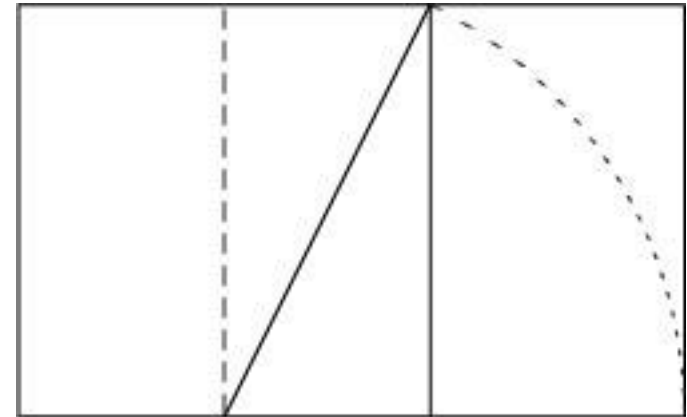
Phi

Fibonacci sequence

Golden rectangle

Fibonacci spiral

Golden mean



Divine Proportion

Golden ratio

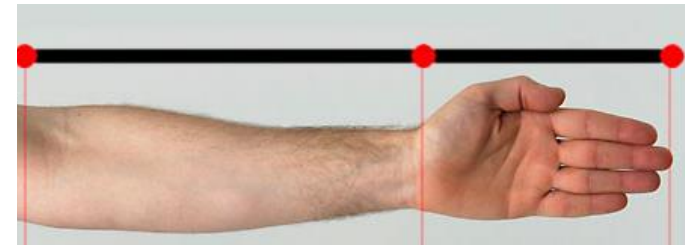
Phi

Fibonacci sequence

Golden rectangle

Fibonacci spiral

Golden mean

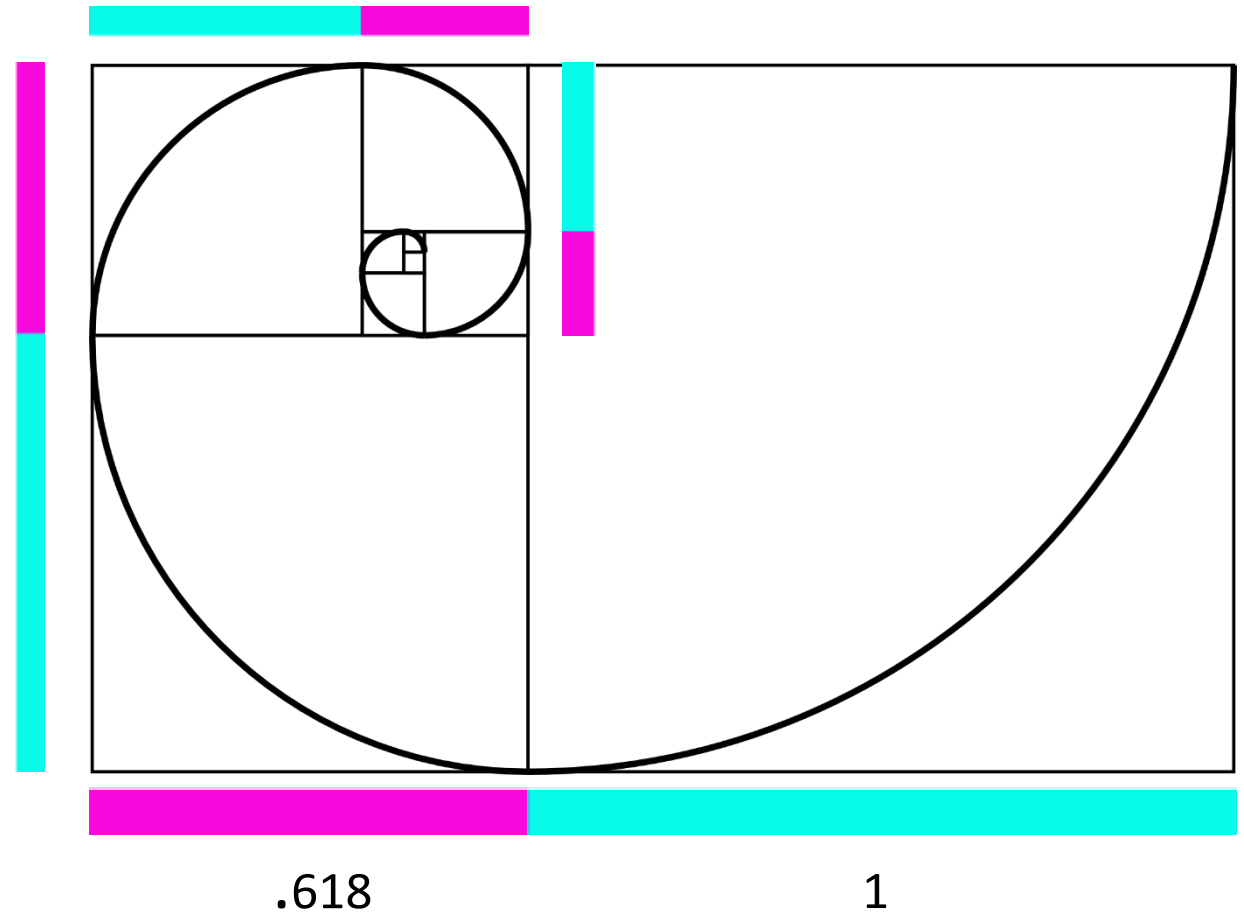
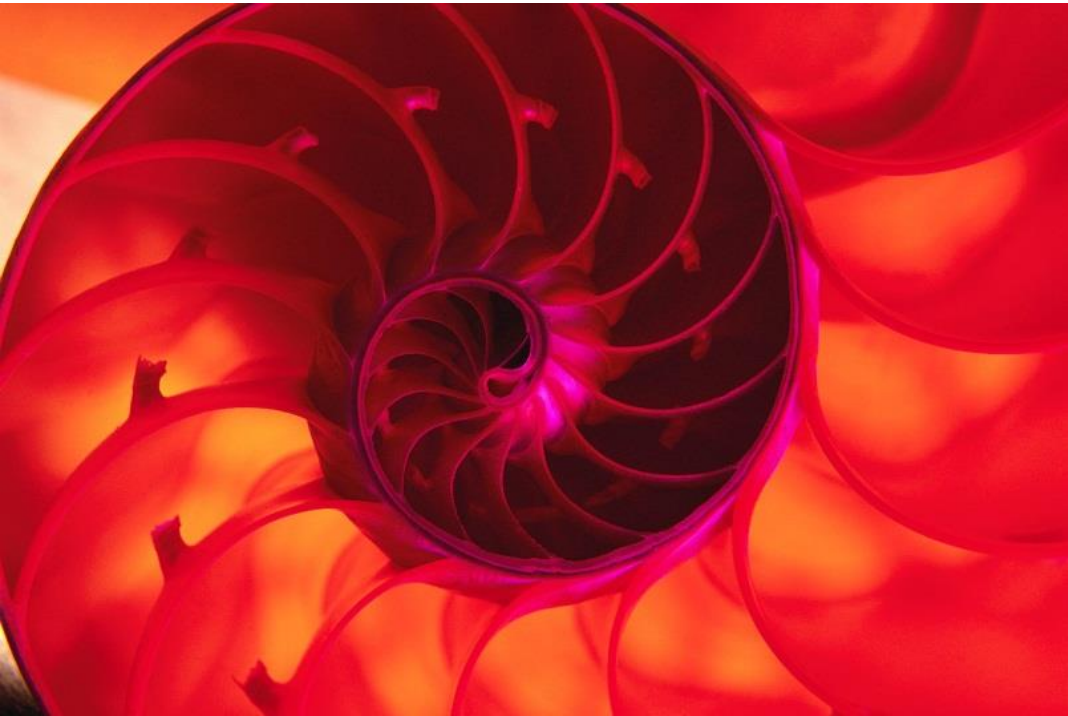


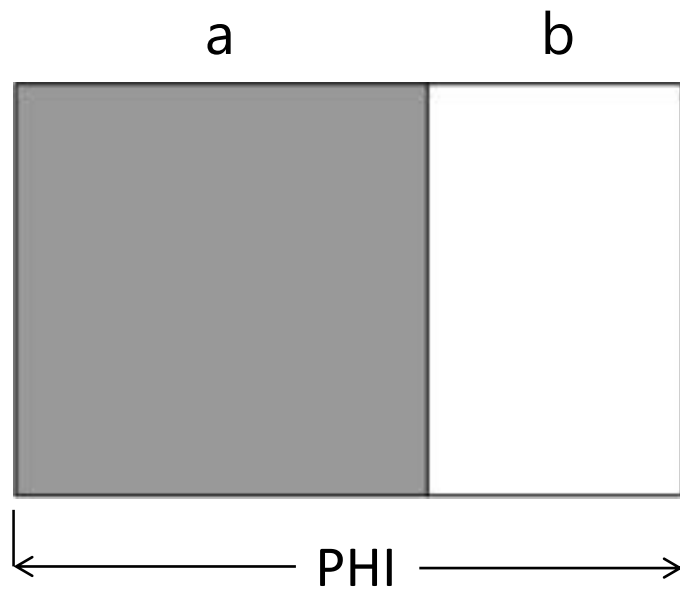
1

.618...



← 1.618... →





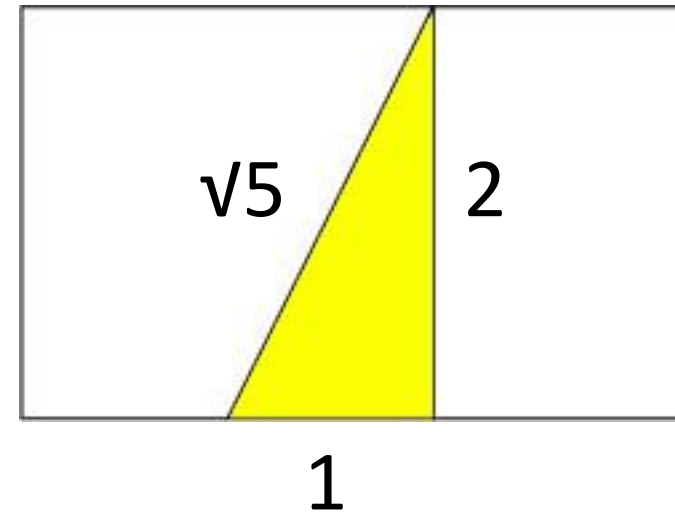
$$\frac{a+b}{a} = 1 + \frac{b}{a} = 1 + \frac{1}{\varphi}$$

$$1 + \frac{1}{\varphi} = \varphi.$$

$$\varphi + 1 = \varphi^2$$

$$\varphi^2 - \varphi - 1 = 0$$

Mathematical expression



$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-(-1) \pm \sqrt{(-1)^2 - 4(1)(-1)}}{2(1)}$$

$$x = \frac{1 \pm \sqrt{5}}{2}$$

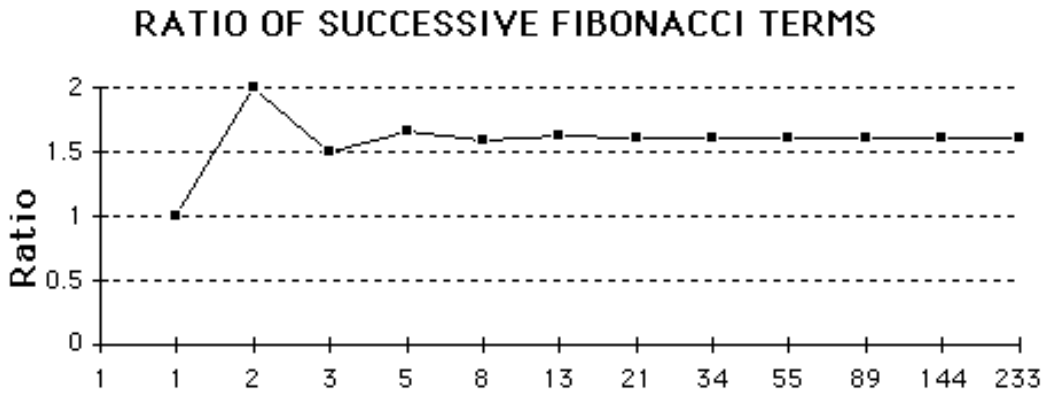
$$x = \frac{1 + \sqrt{5}}{2}, \frac{1 - \sqrt{5}}{2}$$

$$\varphi = \frac{1 + \sqrt{5}}{2} = 1.6180339887\dots$$

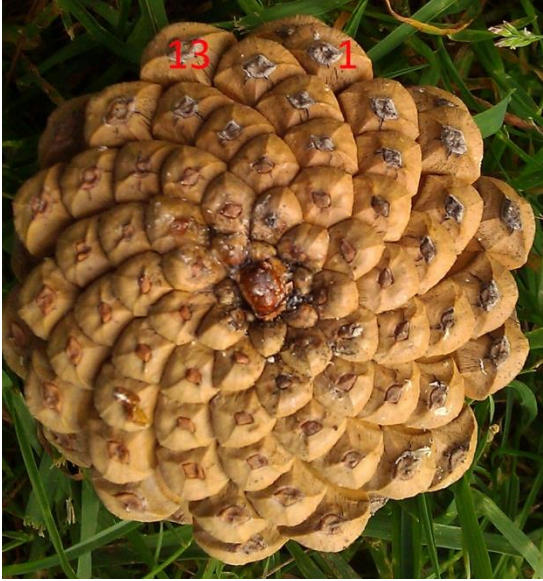


Fibonacci sequence

- 1
- 1
- 2
- 3
- 5
- 8
- 13
- 21
- 34
- 55
- 89
- 144
- 233
- 377
- 610
- 987
- 1597
- 2584
- 4181
- 6765
- 10946
- 17711
- 28657
- 46368
- 75025
- 121393
- 196418
- 317811
- 514229
- 832040



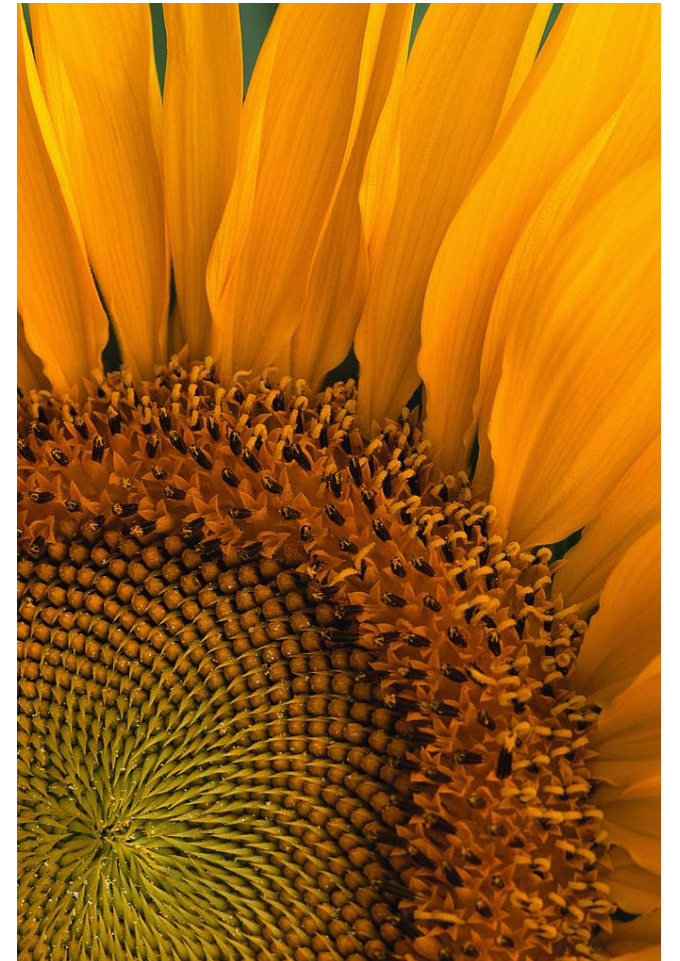
1.6180339887...

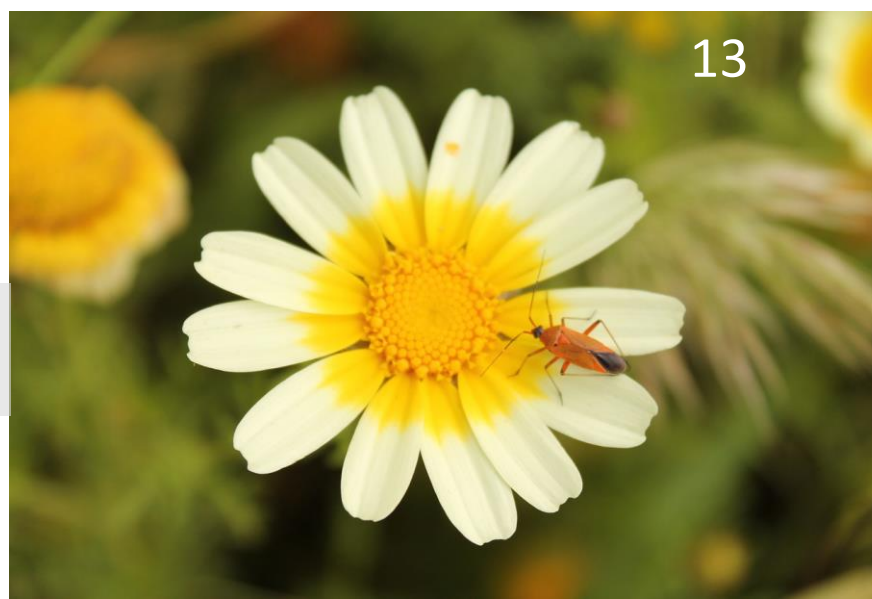


Spirals to the right: 13
Spirals to the left: 8

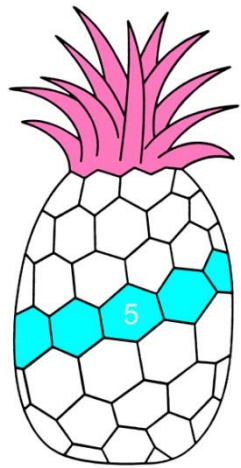


Florets are in spirals of 21, 34, 55

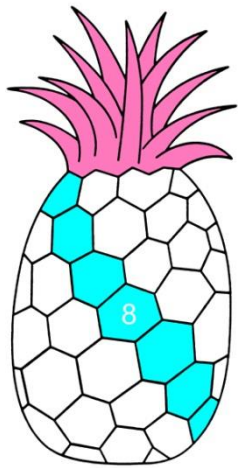




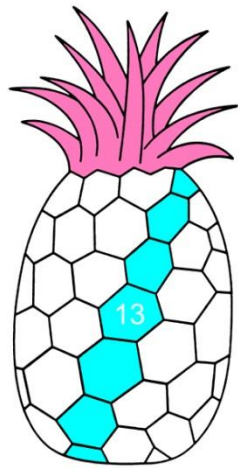
Plants



5



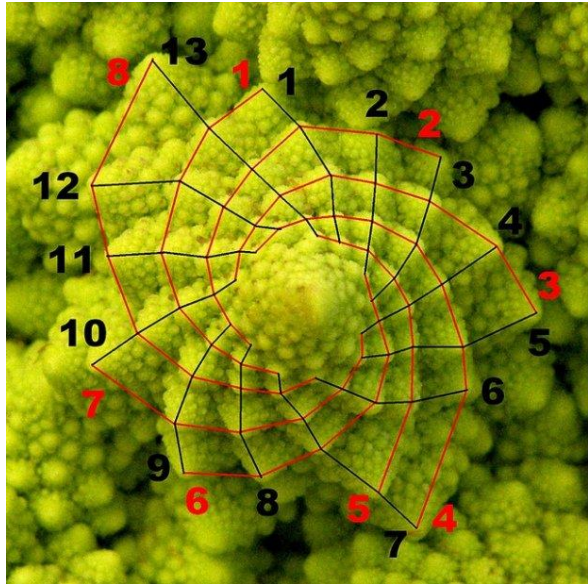
8



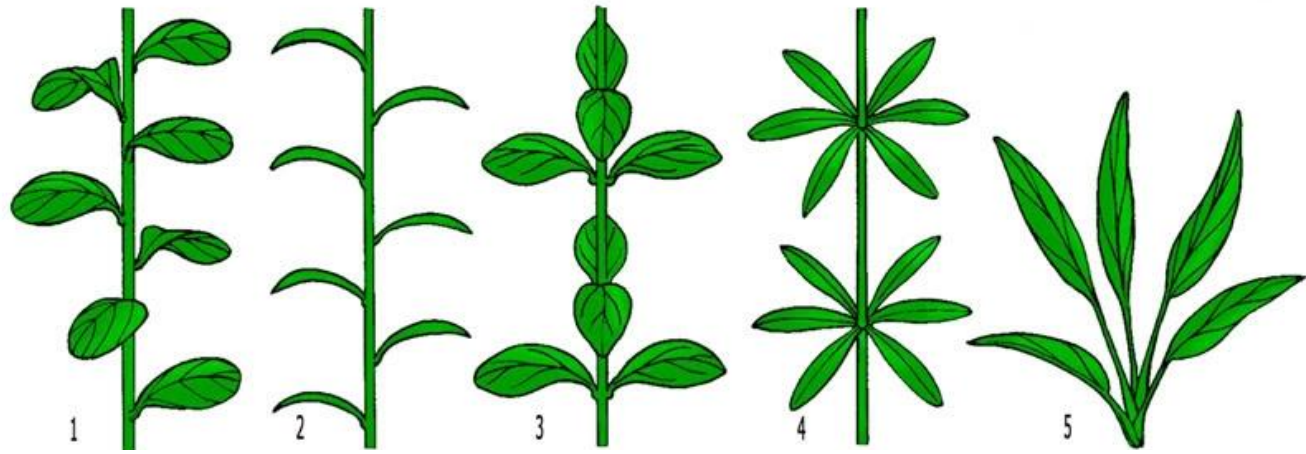
13

Plants



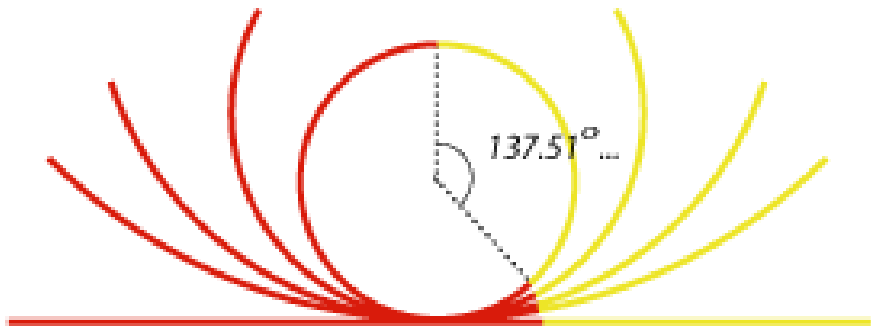


Plants



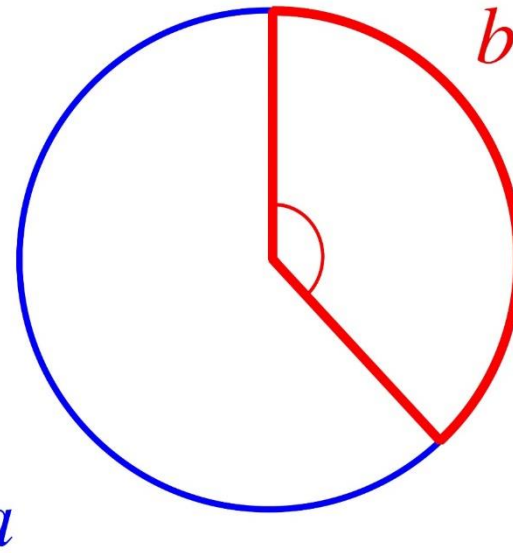
Plants



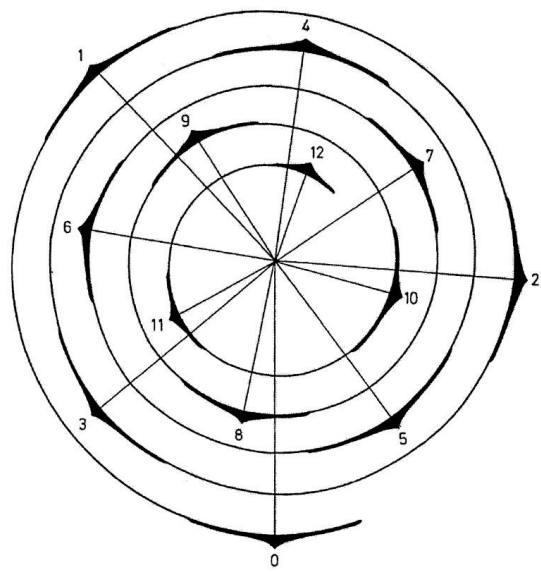


Golden Angle = $360^\circ (2 - \phi) = \sim 137.51^\circ$

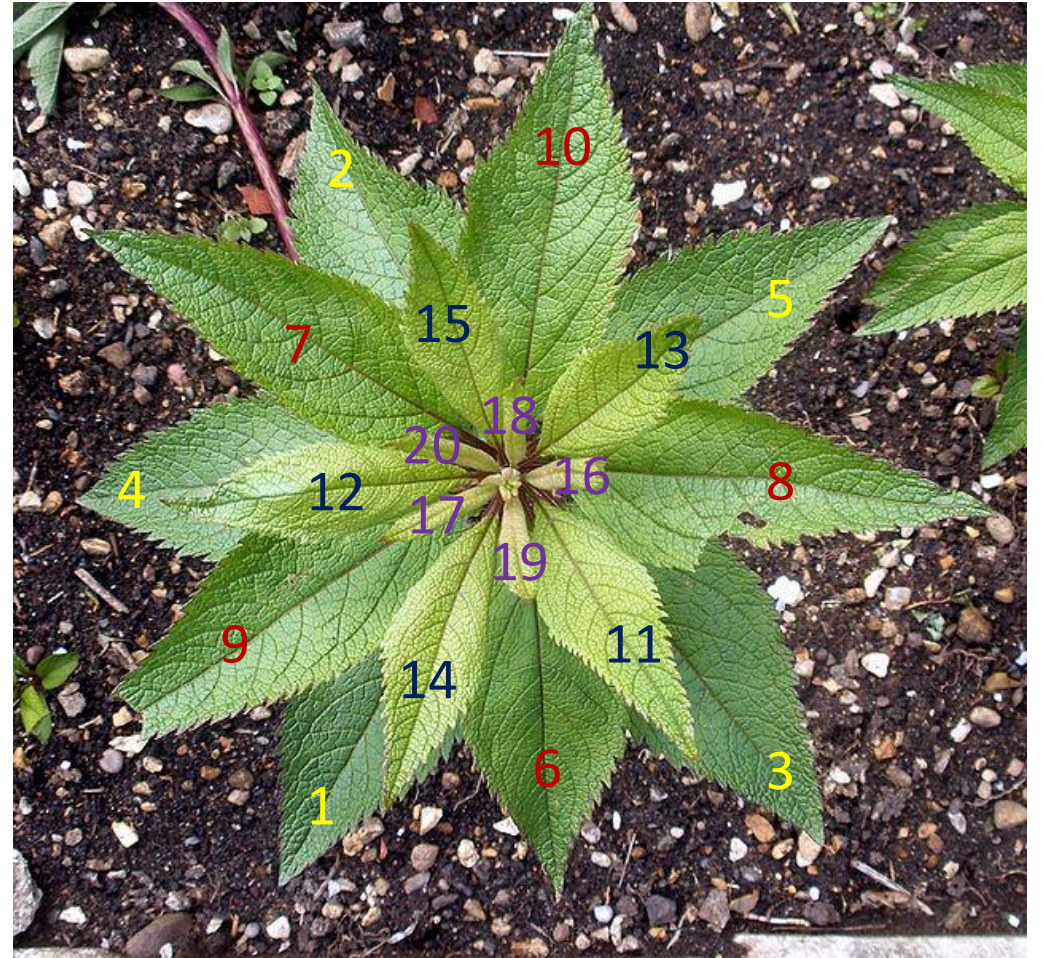
Plants



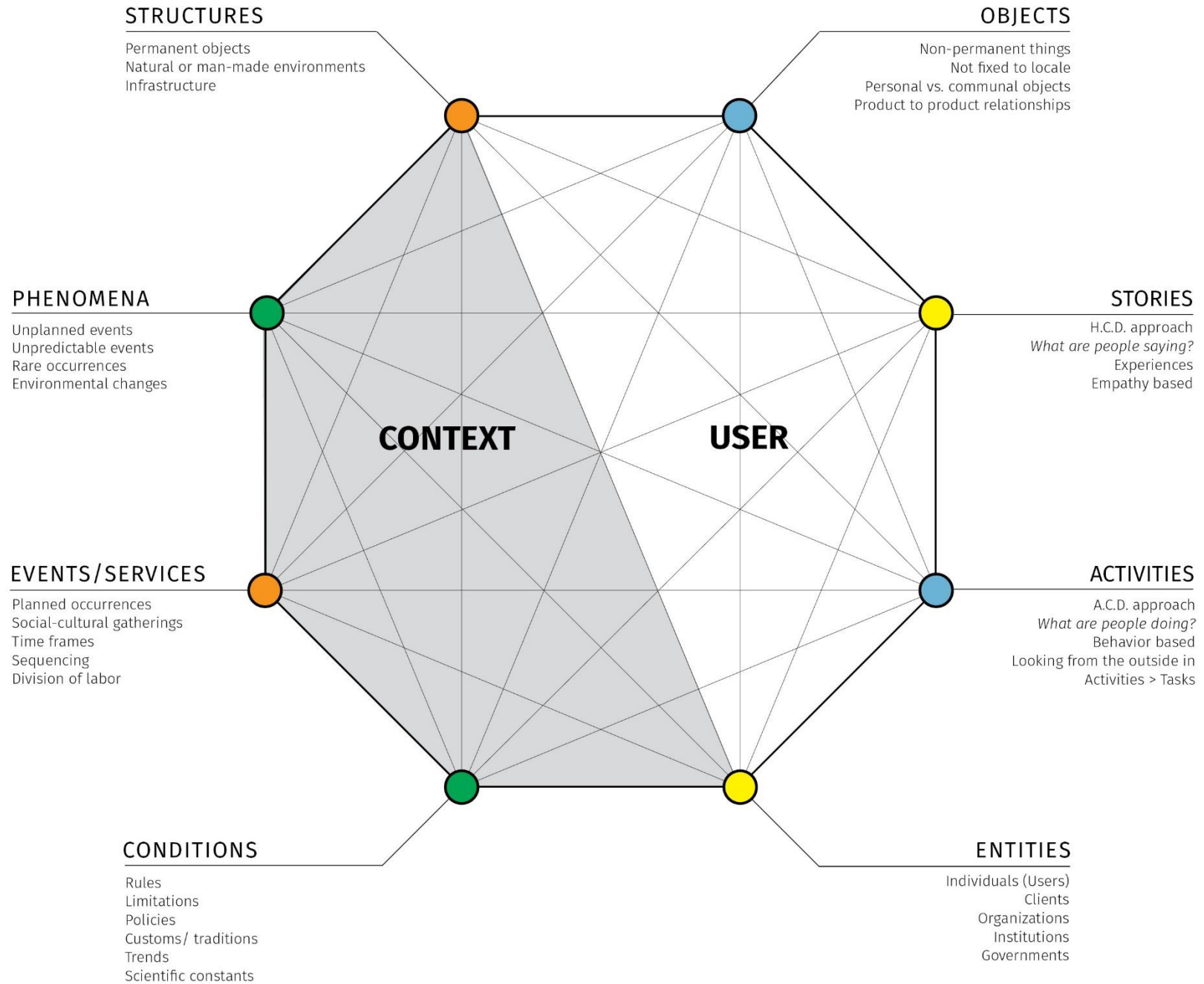
$$\frac{a = 222.5 \text{ degrees}}{b = 137.5 \text{ degrees}} = 1.618$$



$b = 137.5$ degrees



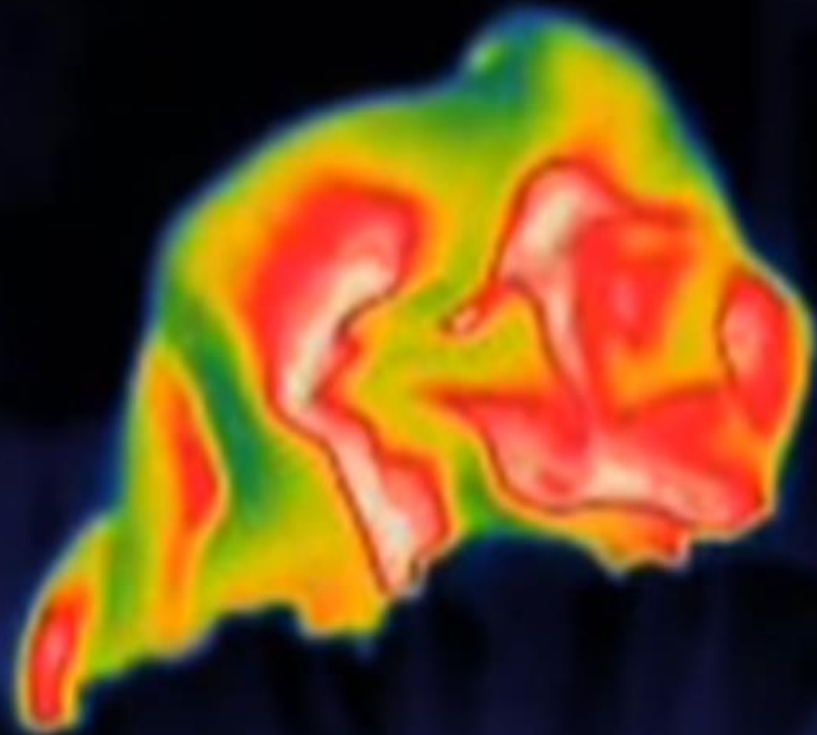
Plants





Interdependent designs

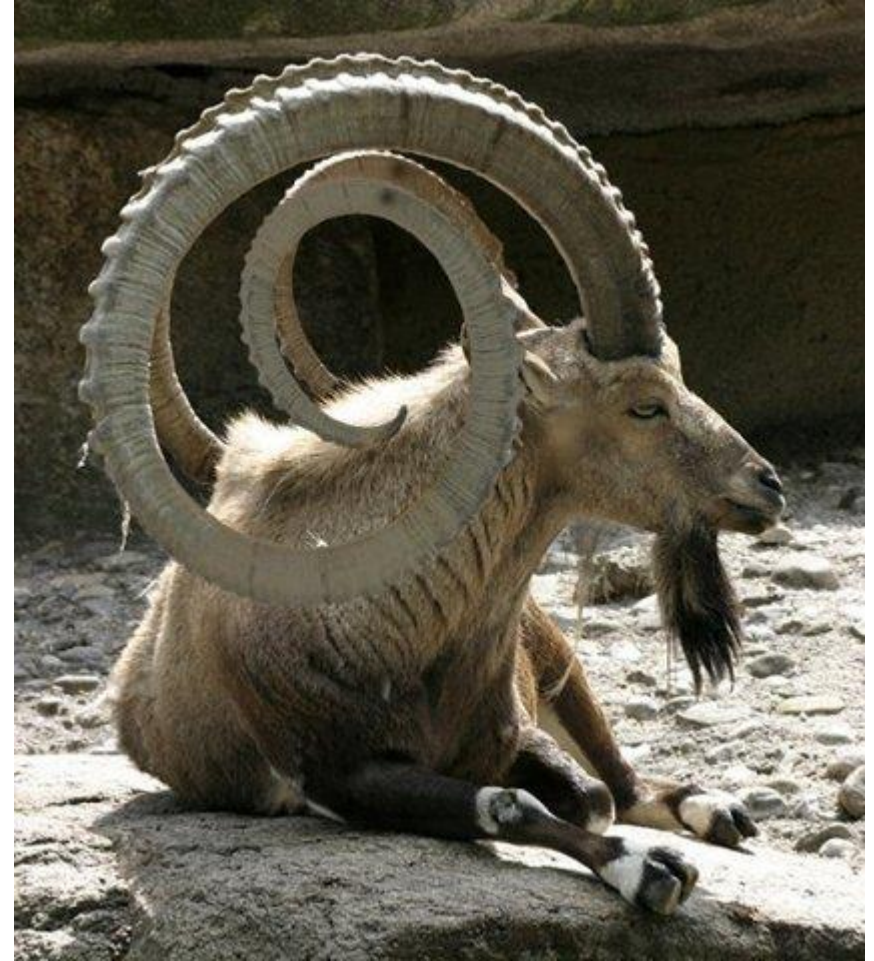




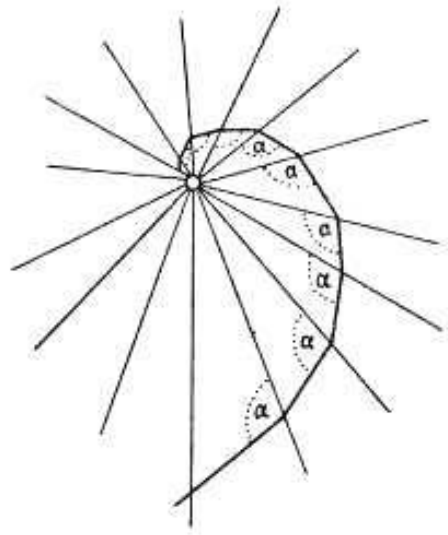
Interdependent designs



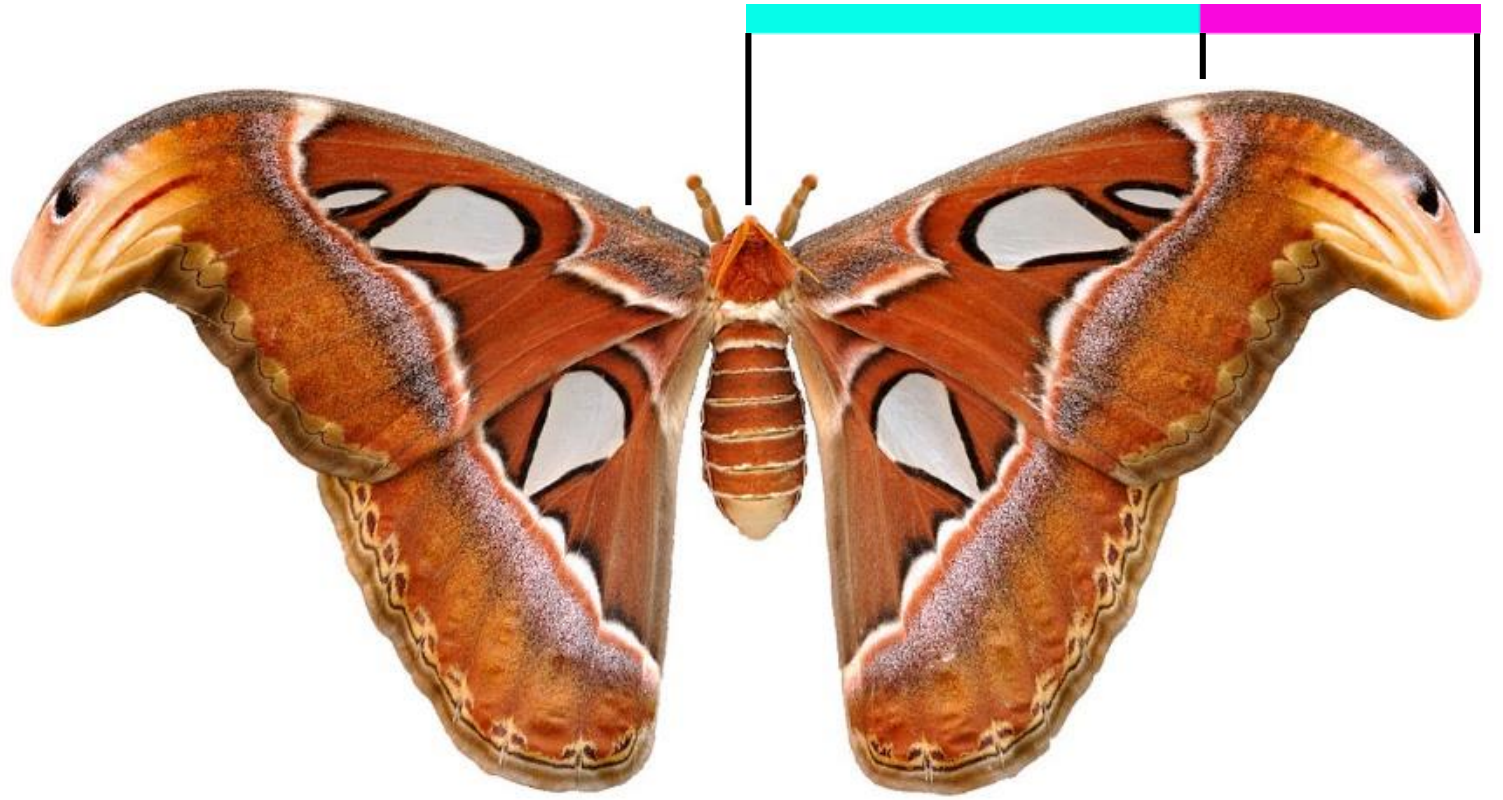
Interdependent designs



Animals



Animals

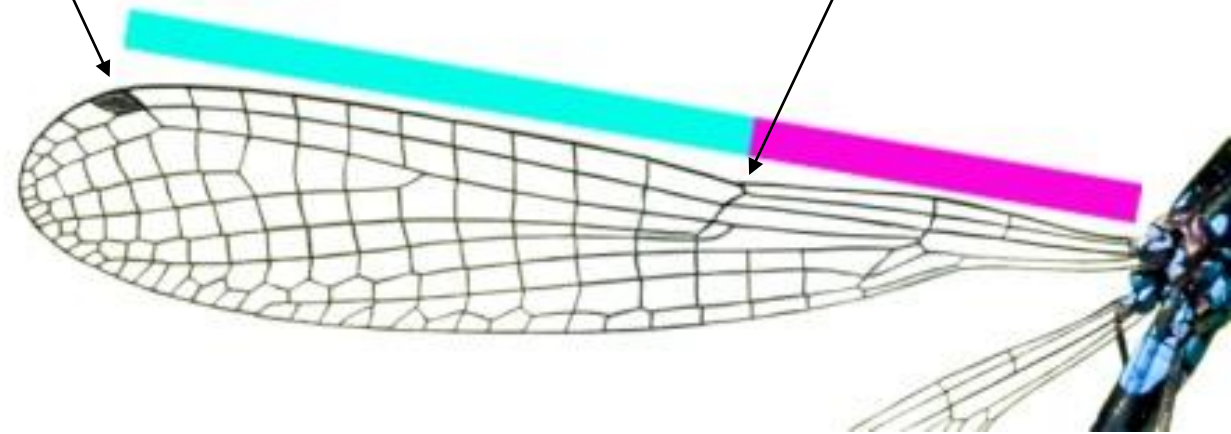


Animals



pterostigma

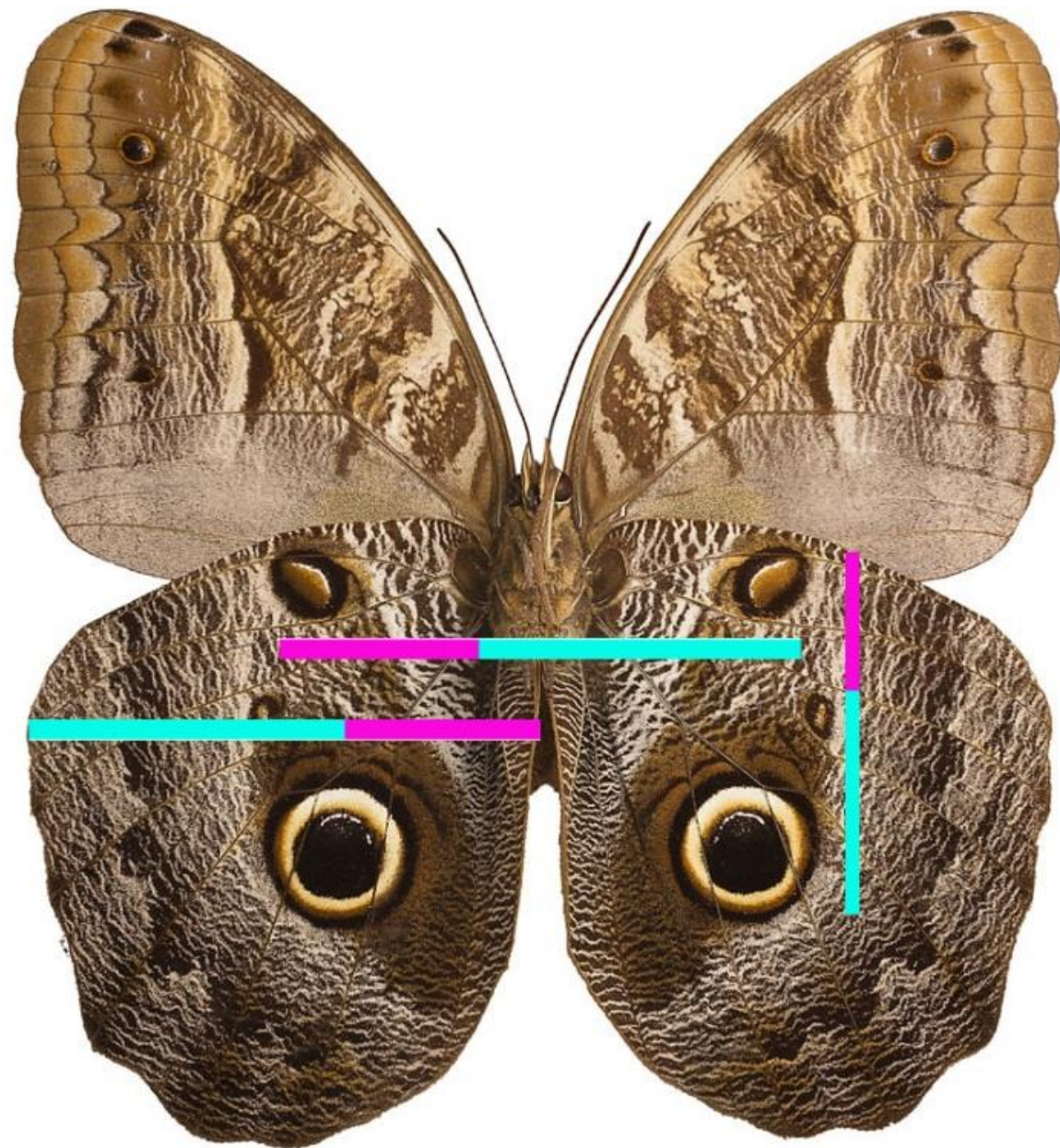
nodus



Animals

Animals



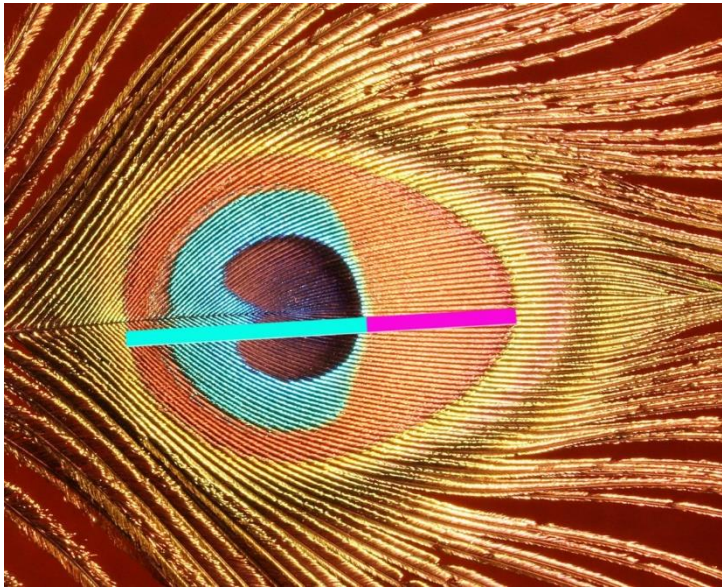


Animals

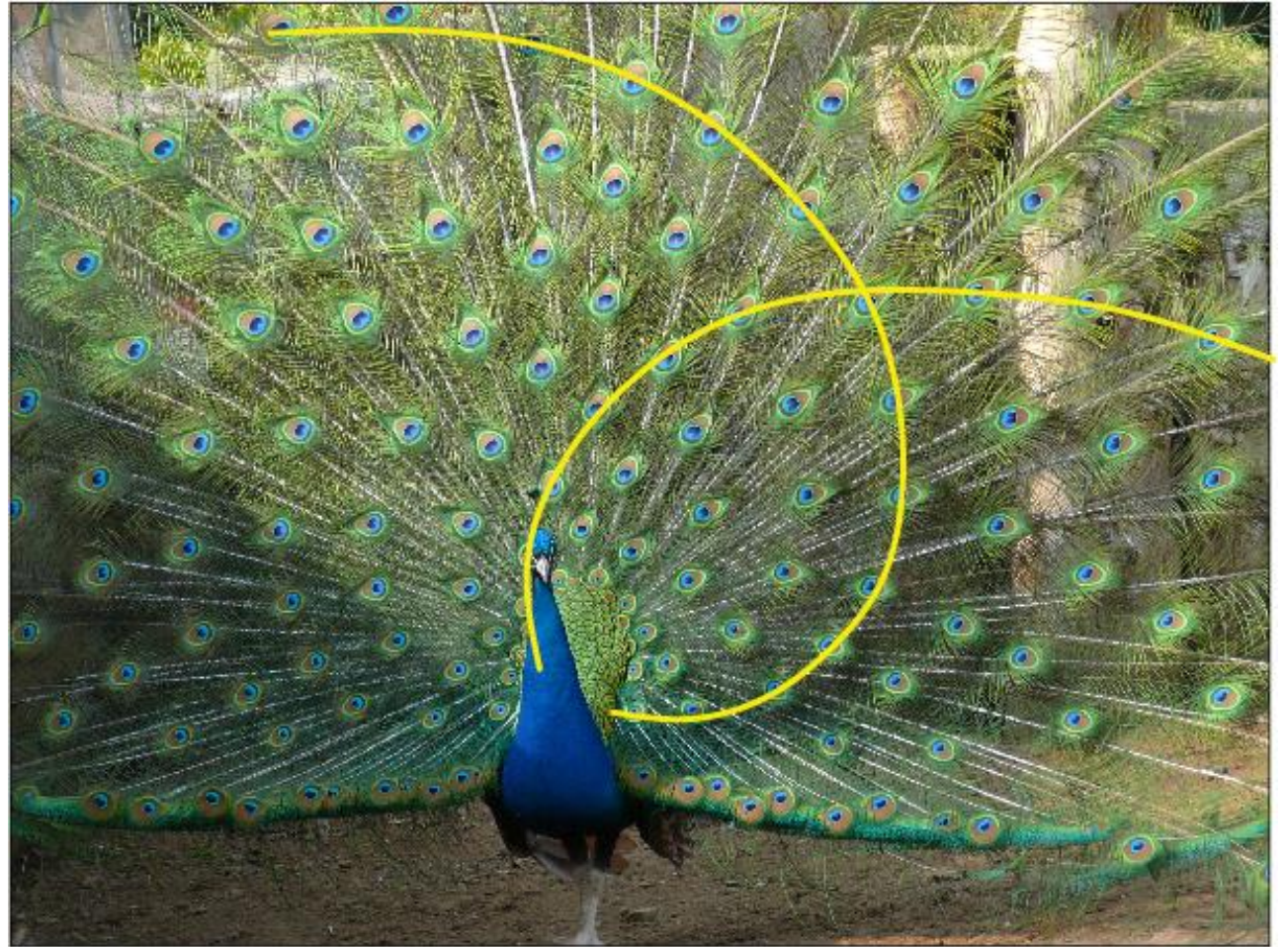
1 cm

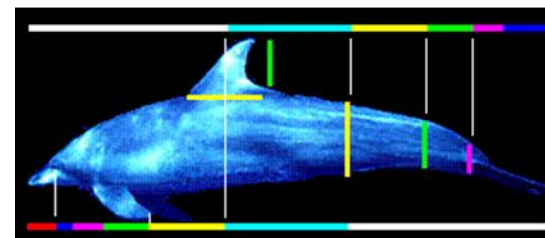
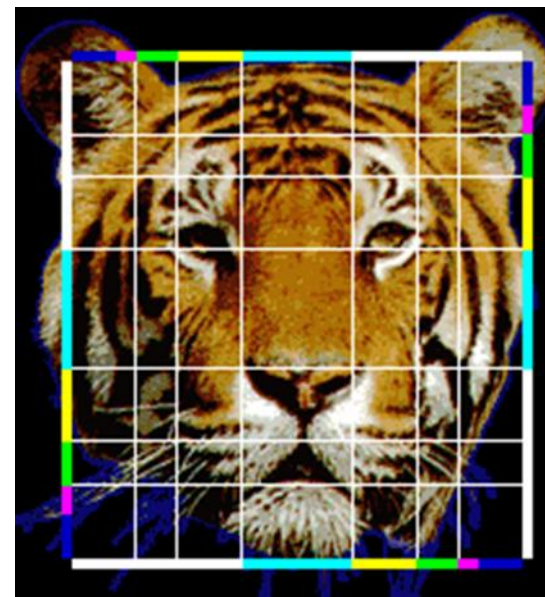
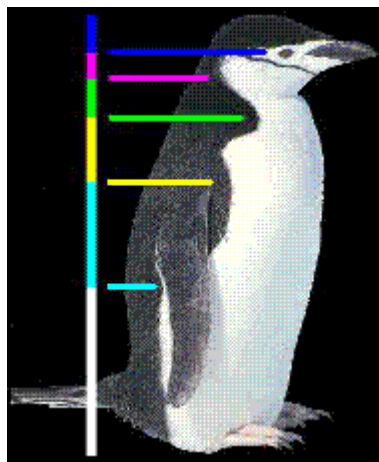
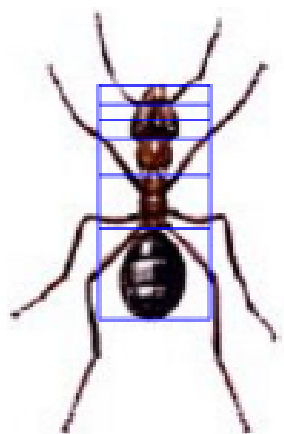


Animals

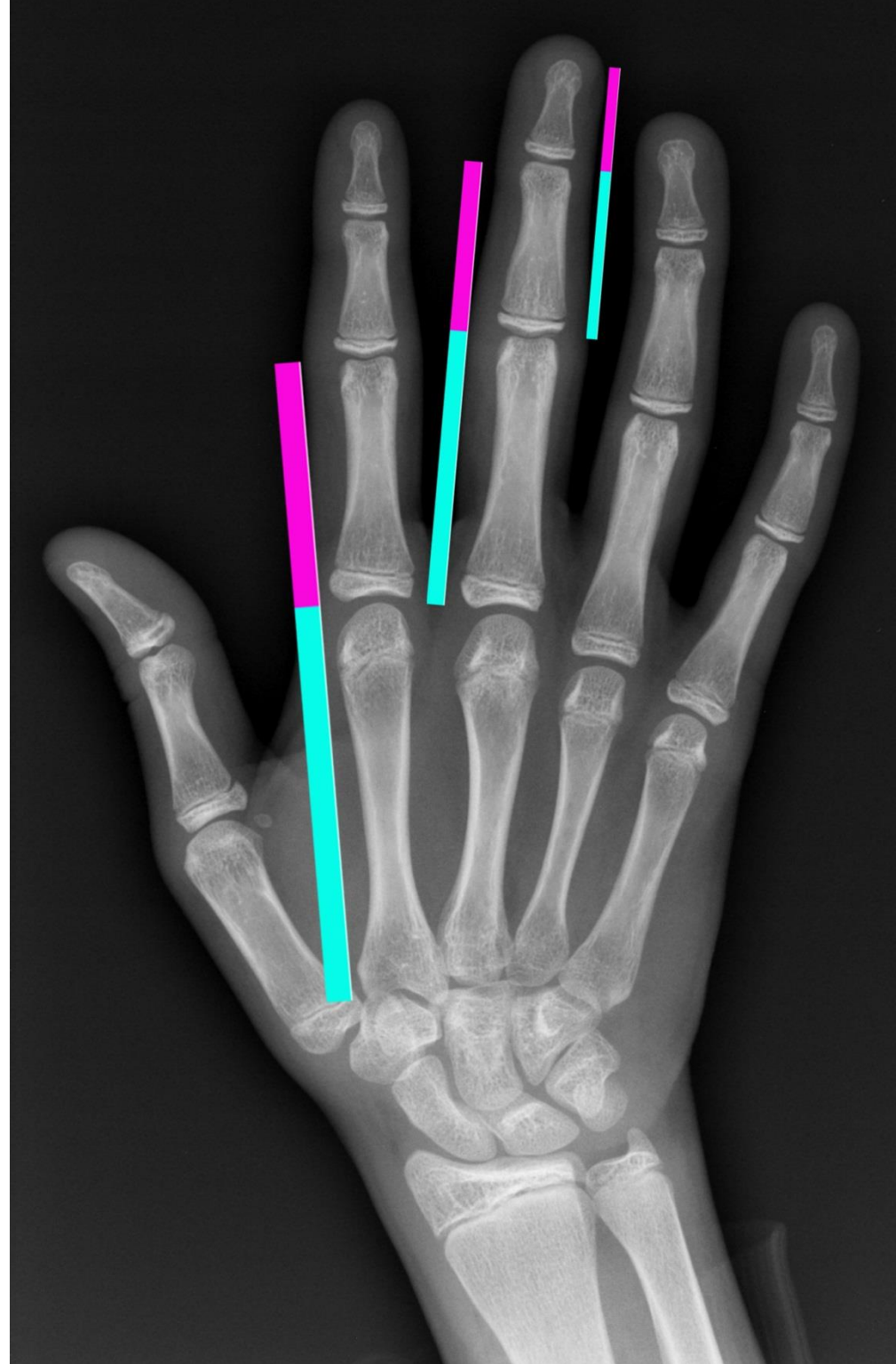
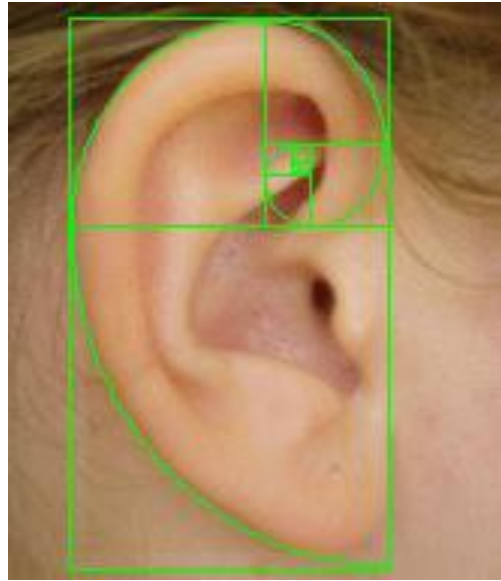


Animals

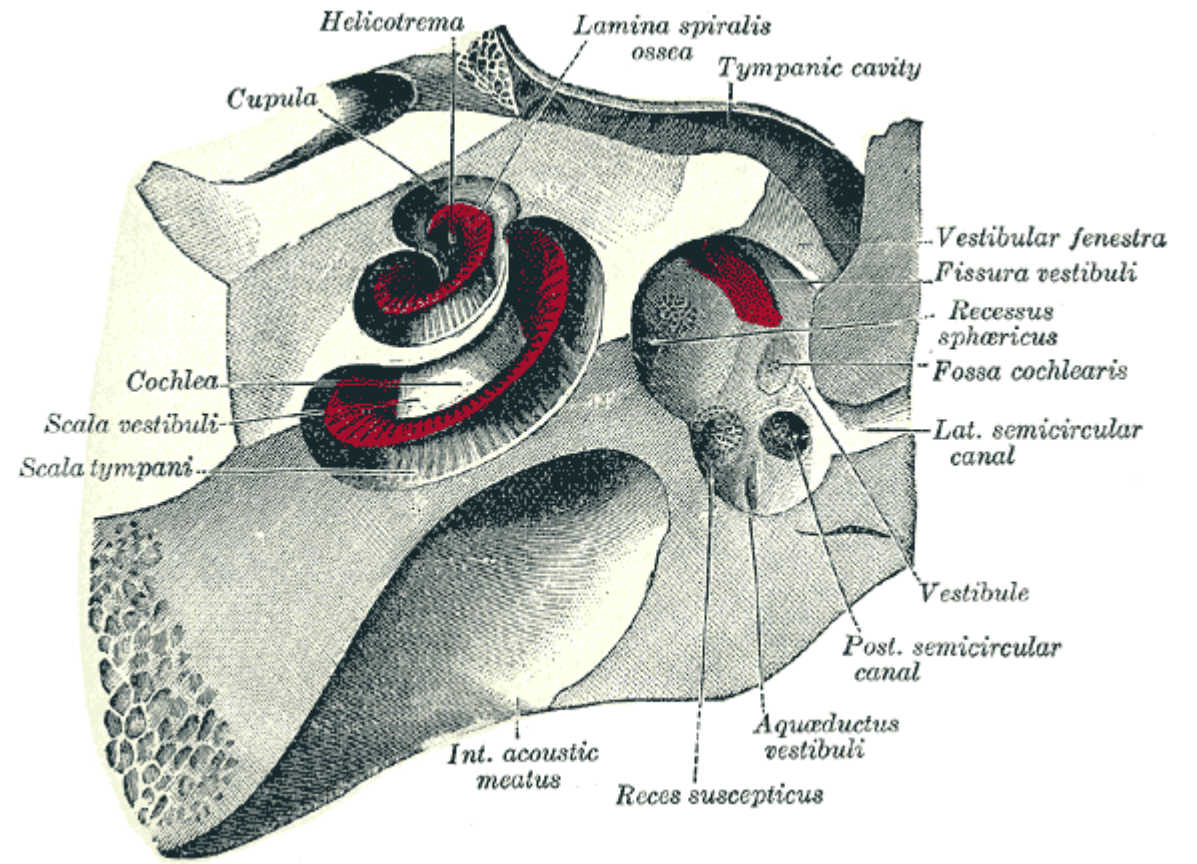




Animals

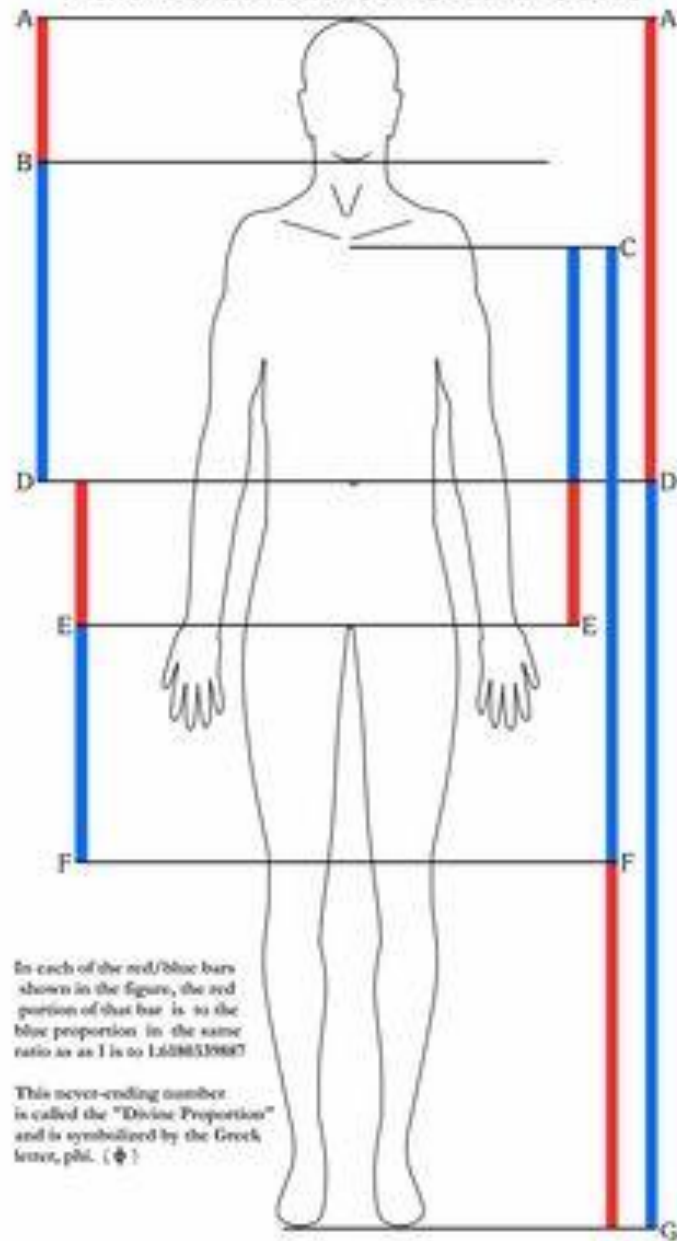


Human



Human

DIVINE PROPORTIONS



In each of the red/blue bars shown in the figure, the red portion of that bar is to the blue portion in the same ratio as 1 is to 1.6180339887

This never-ending number is called the "Divine Proportion" and is symbolized by the Greek letter, phi. (ϕ)

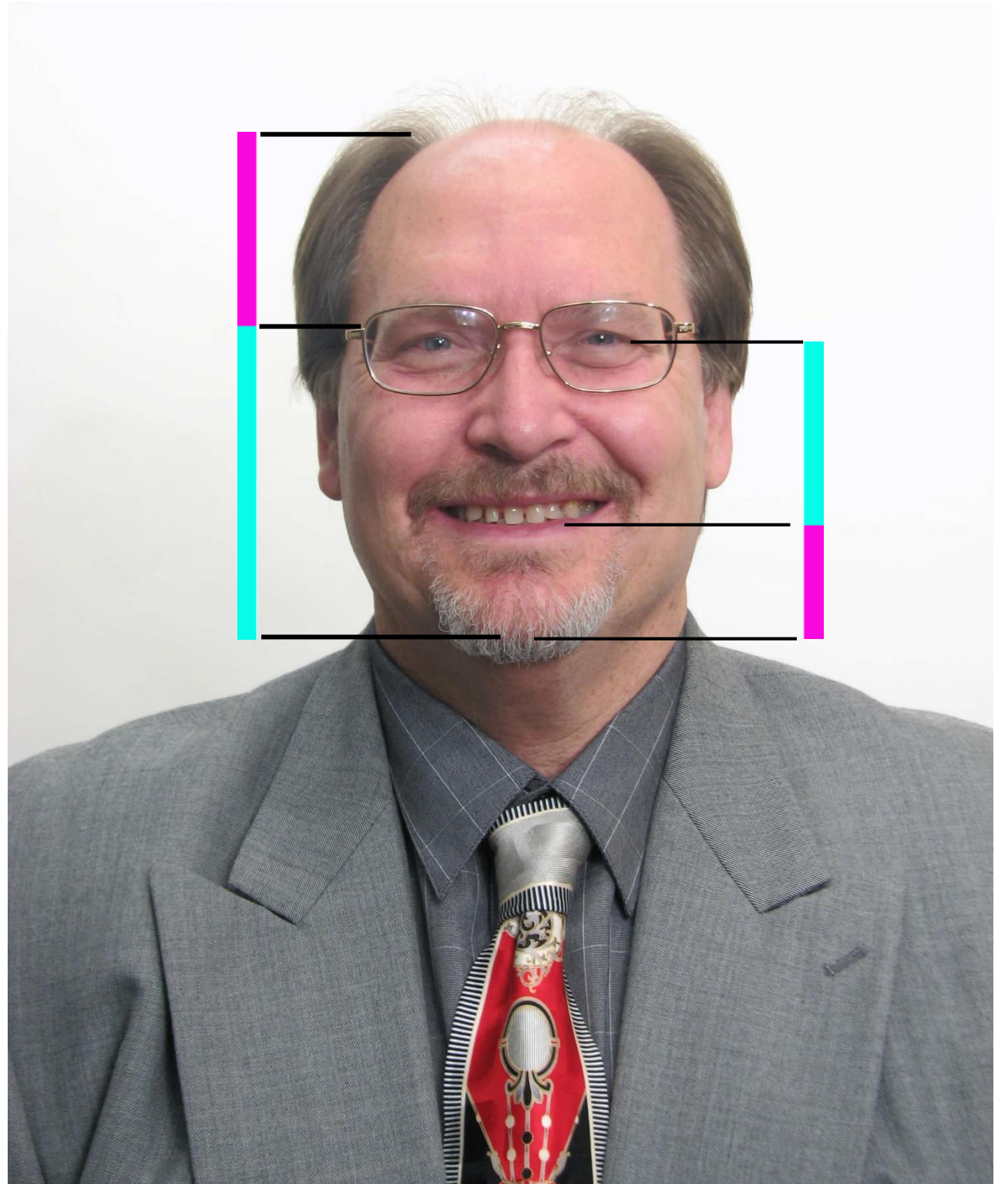
$$\overline{BD} \div \overline{AB} = \phi ; \overline{EF} \div \overline{DE} = \phi ; \overline{DG} \div \overline{AD} = \phi ;$$

$$\overline{CF} \div \overline{FG} = \phi ; \overline{CD} \div \overline{DE} = \phi ;$$

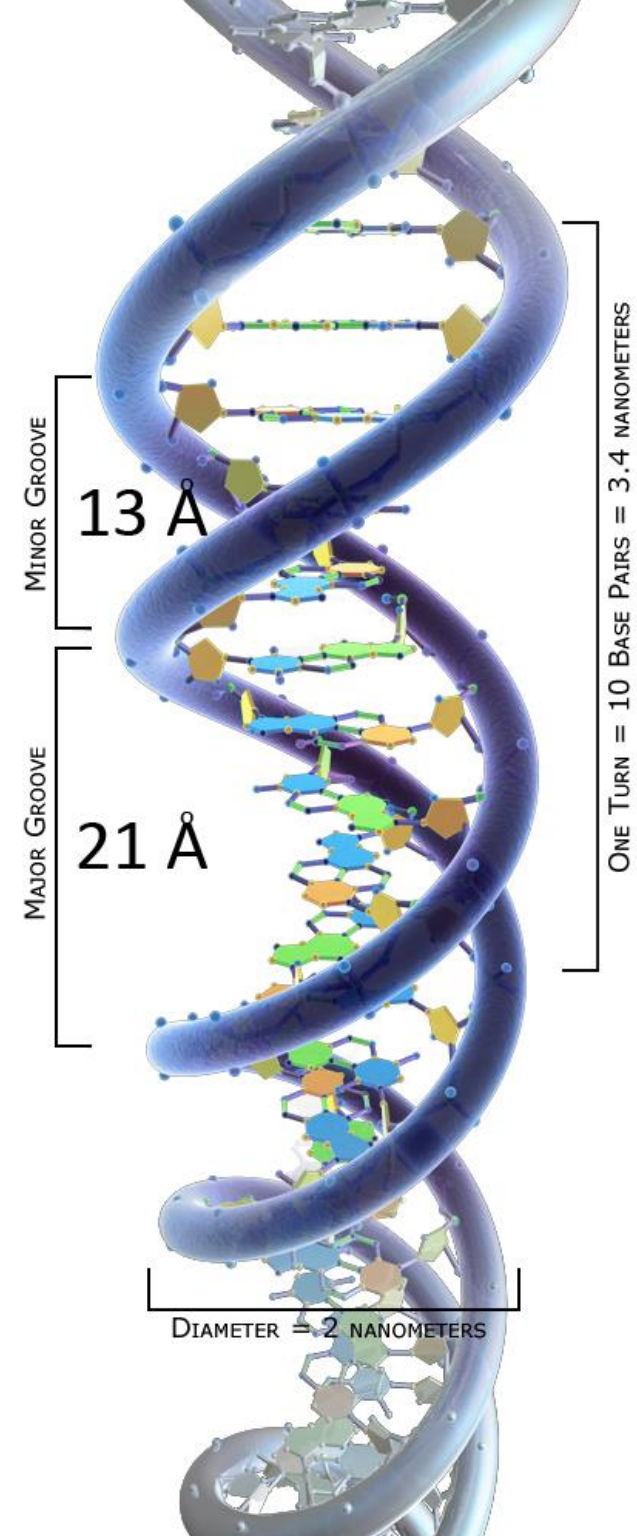
Beyond those shown here, other divine proportionalities also exist. For example, the width of the lips is in divine proportion to the width of each eye, the width of the shoulders is in divine proportion to the width of the waist and so on.

Human

Human



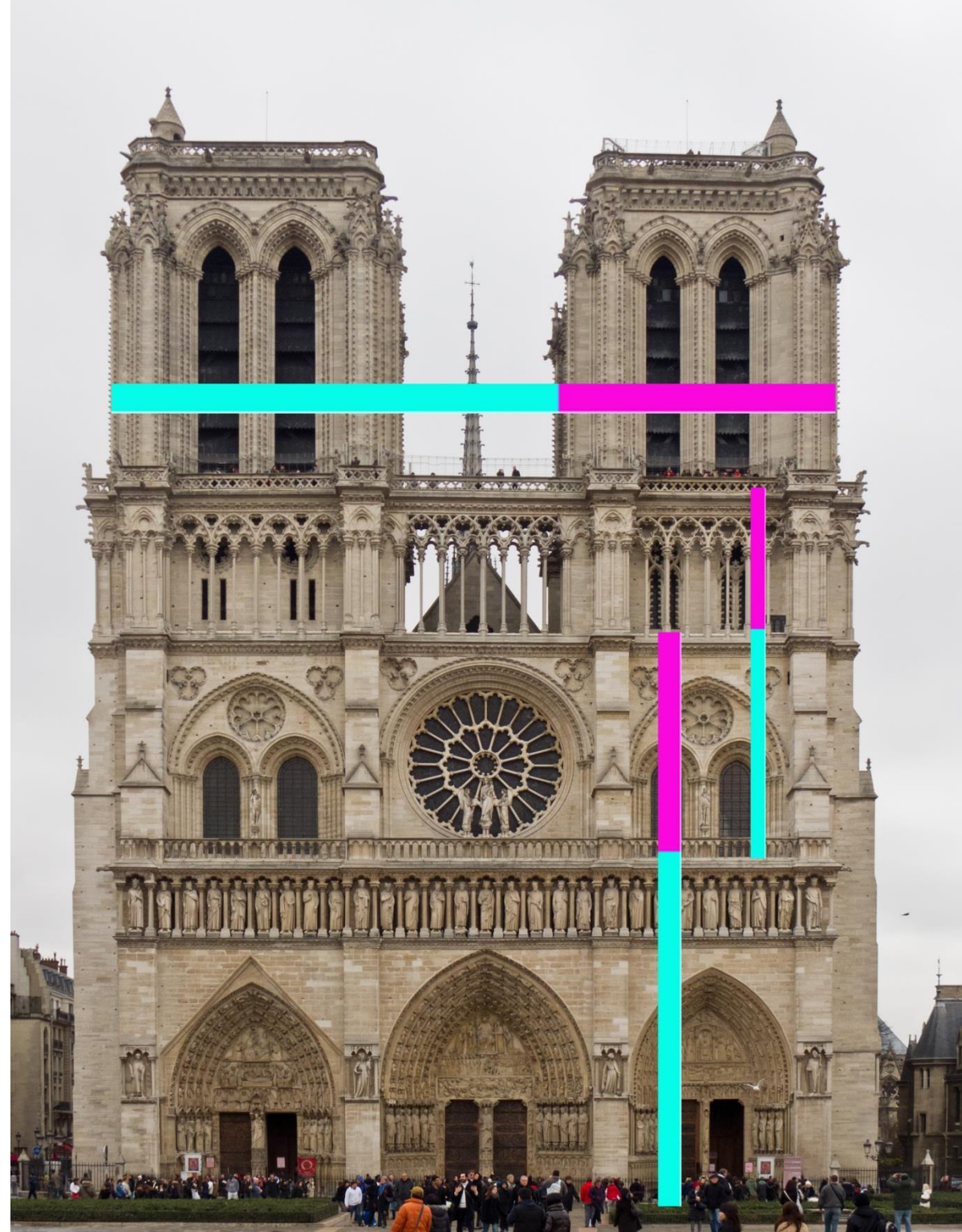
Human

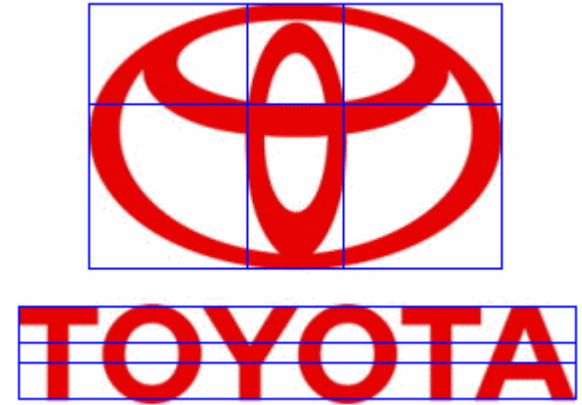


Man-made

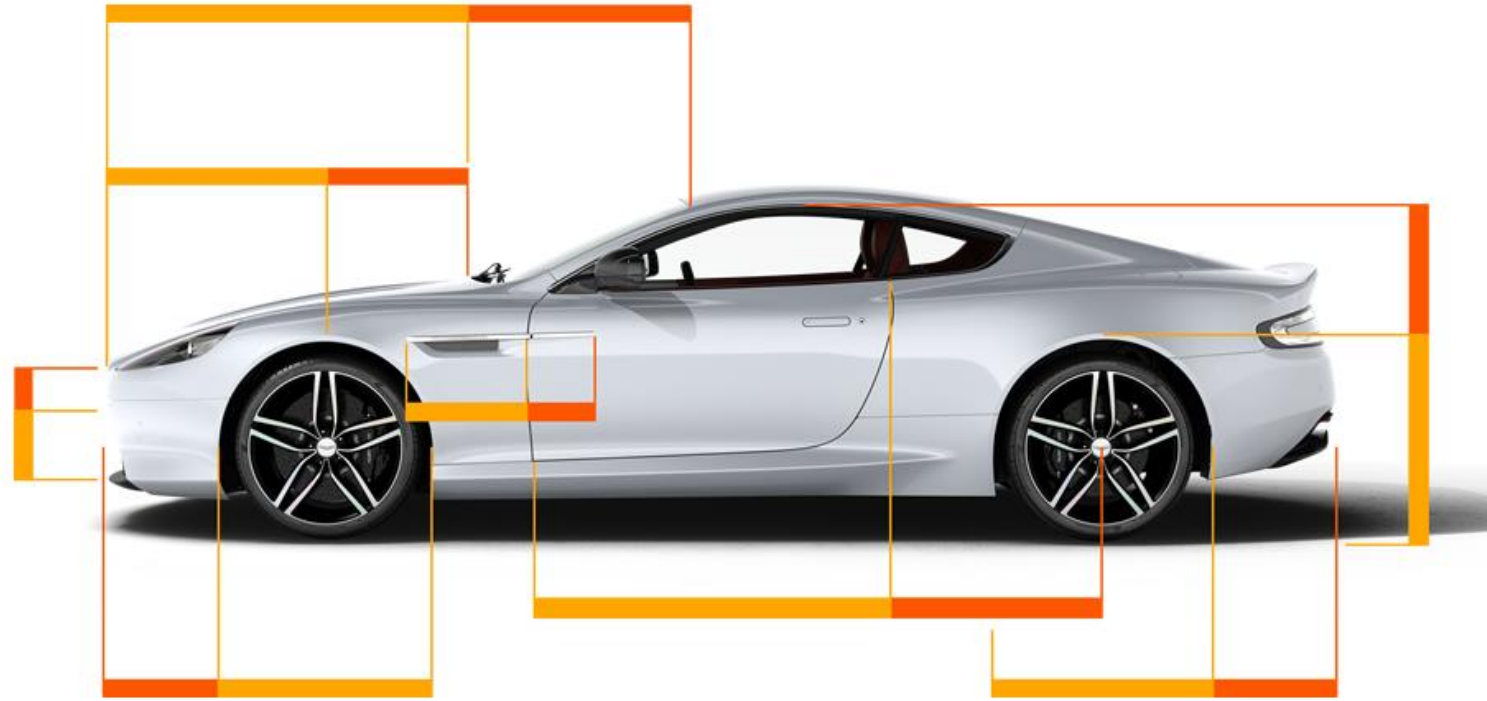


Man-made





Man-made



Man-made

Divinely Inspired



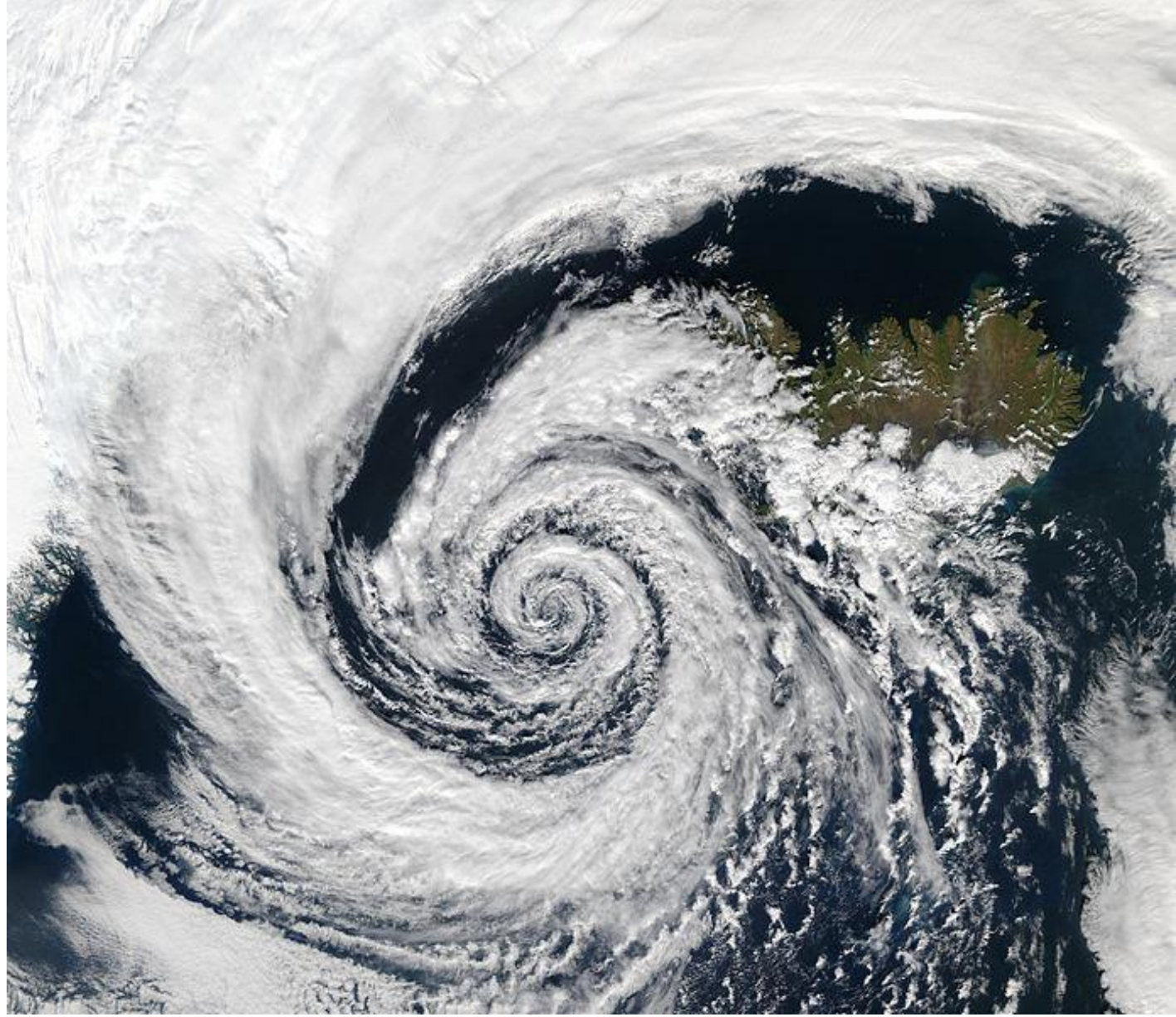
Divinely Inspired

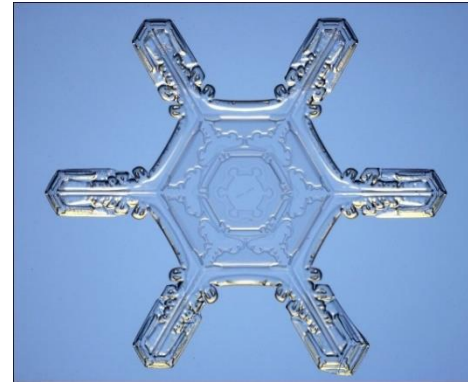
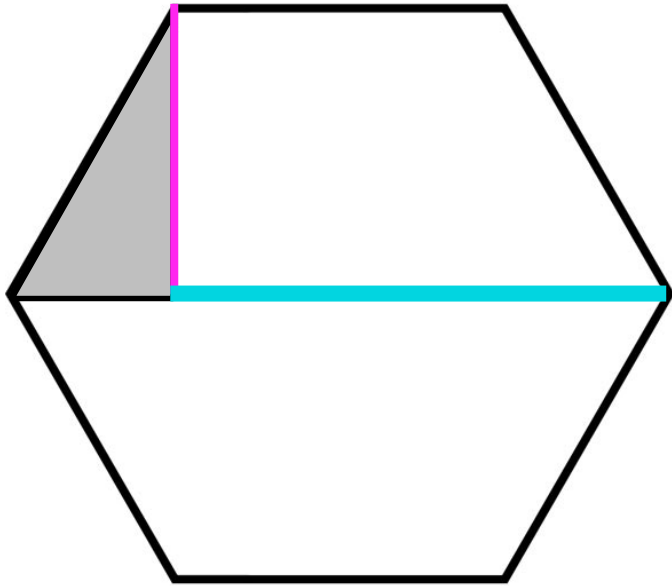




Inanimate things

Inanimate things

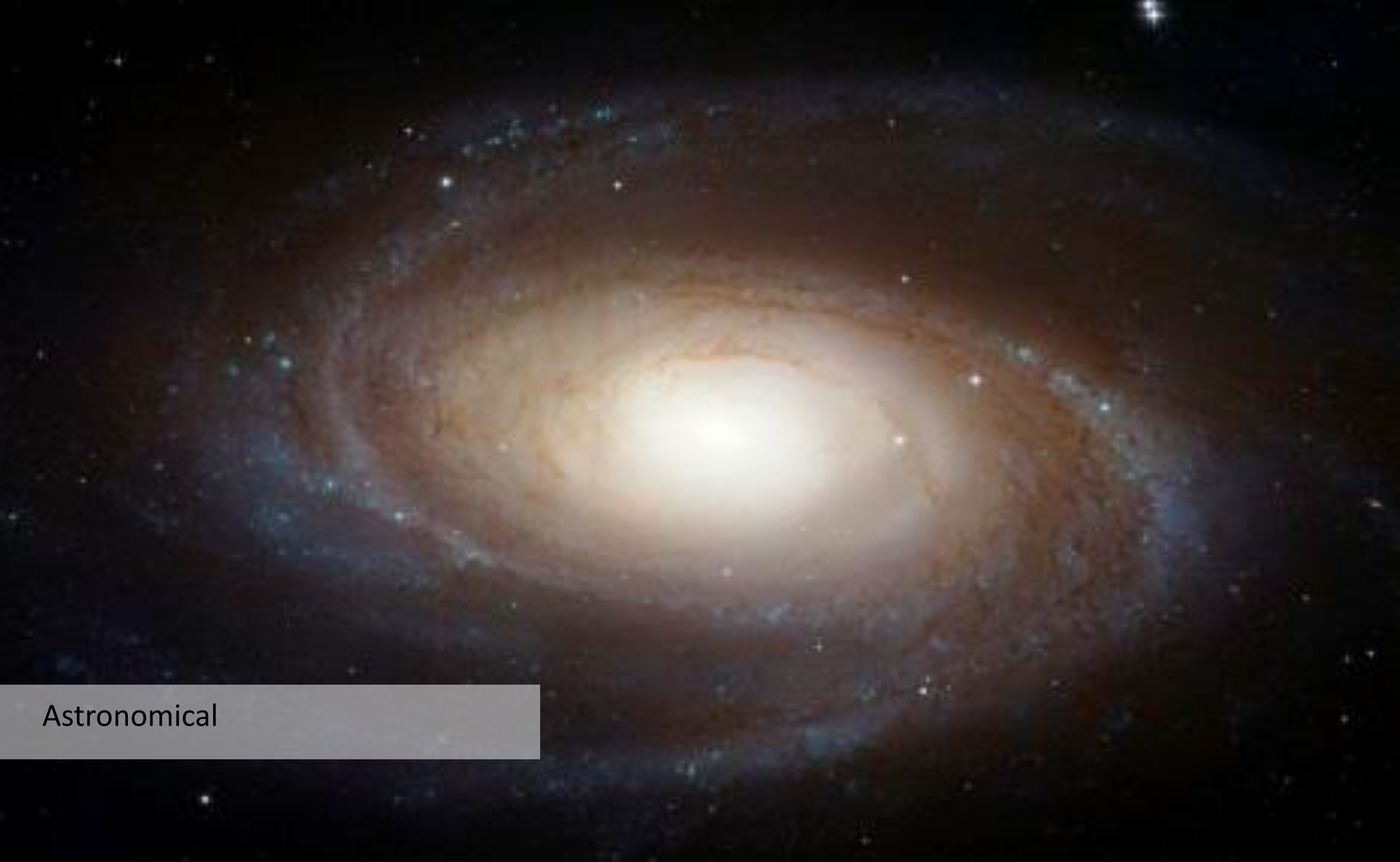




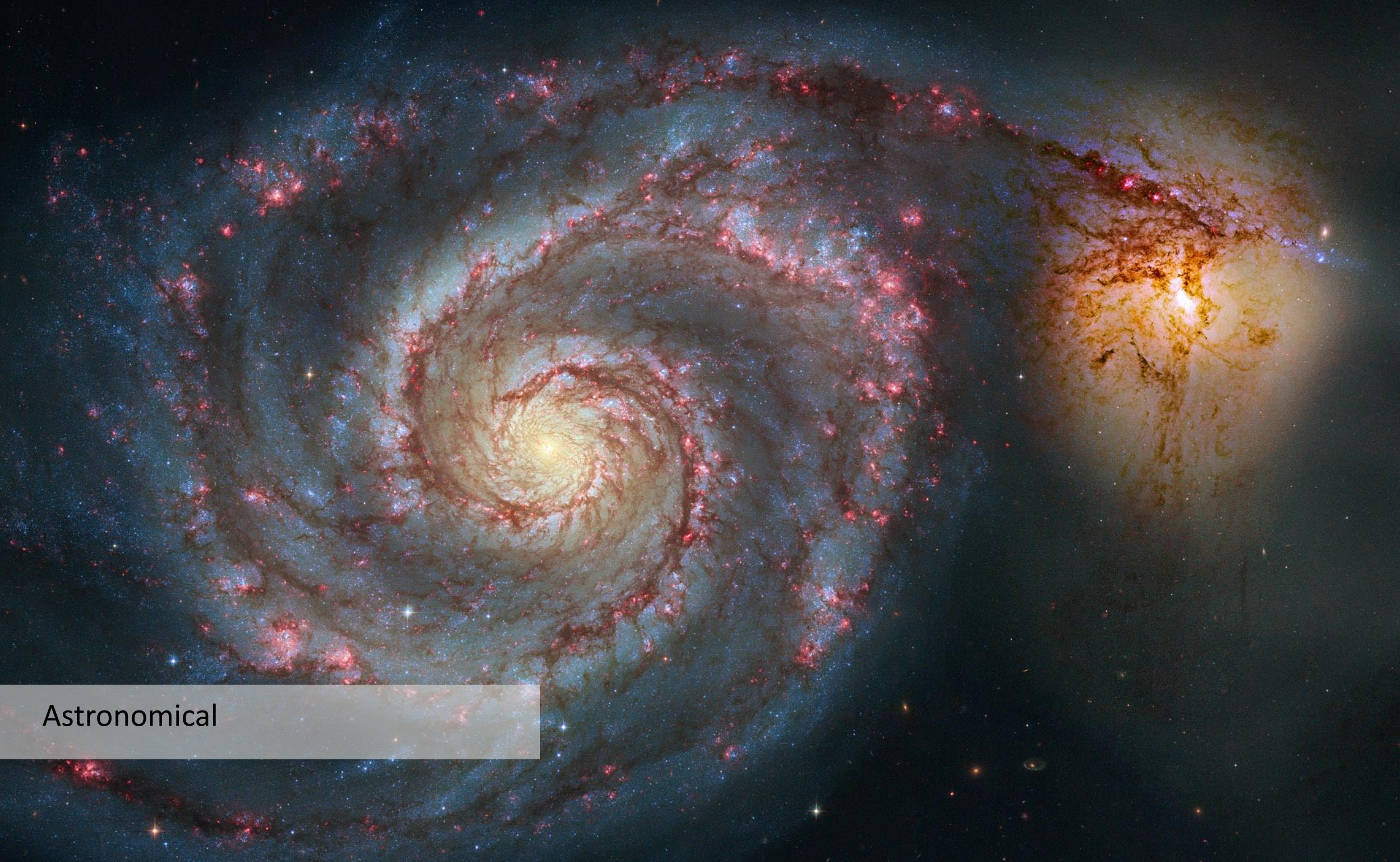
Inanimate things



Astronomical



Astronomical



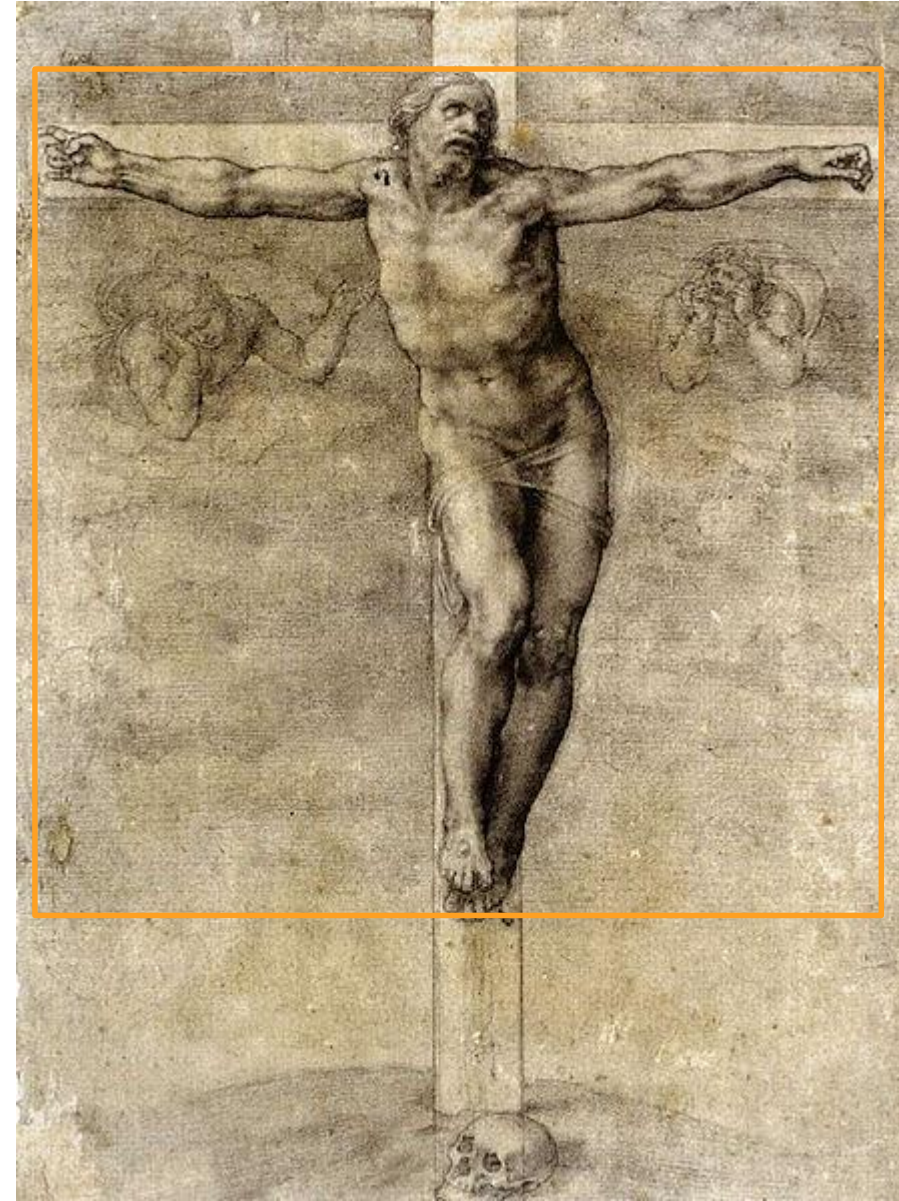
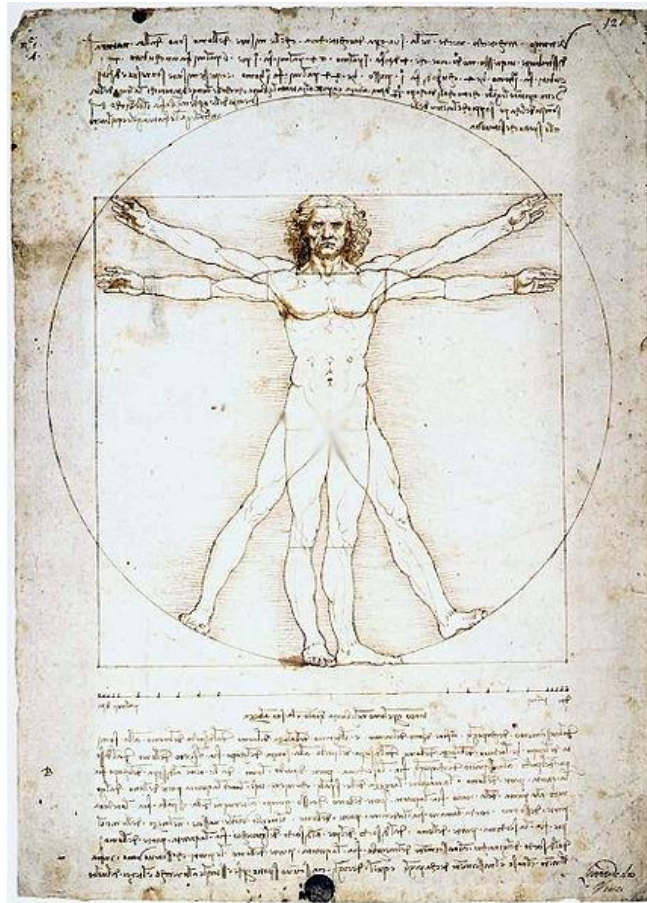
Astronomical

Astronomical

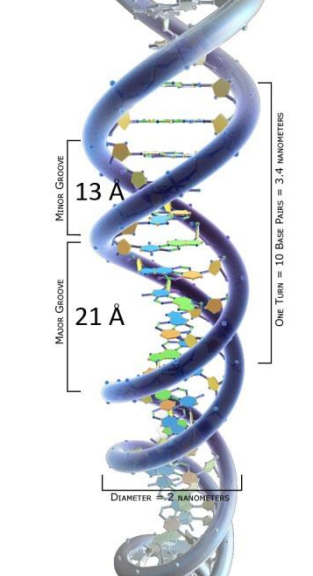


Astronomical





Astronomical



Universal commonality & unfathomable complexity