

# The Sky is Green

Vjeko Sager

**what**



**is**

**color**



**colorant**



**light**



**eye**



**brain**



theory

more than

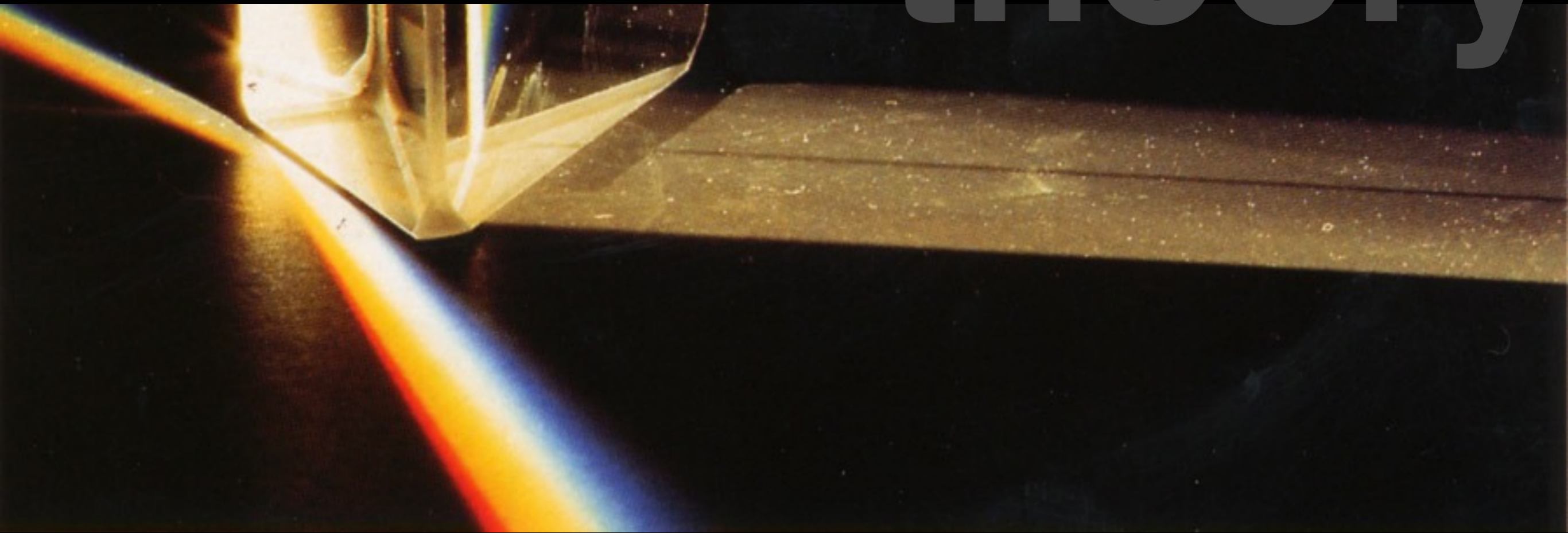
**90** color

theories

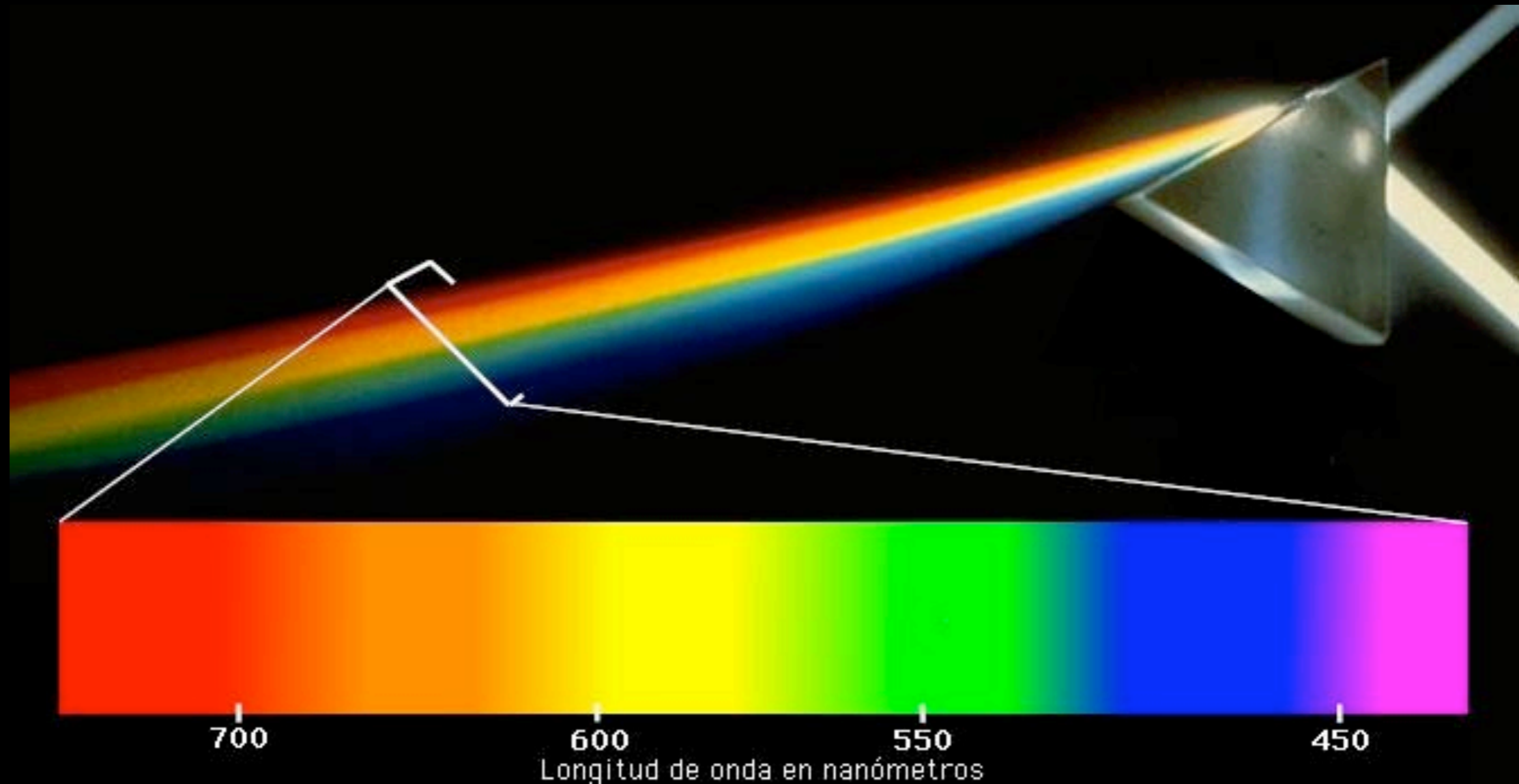
theory

# Isaac Newton

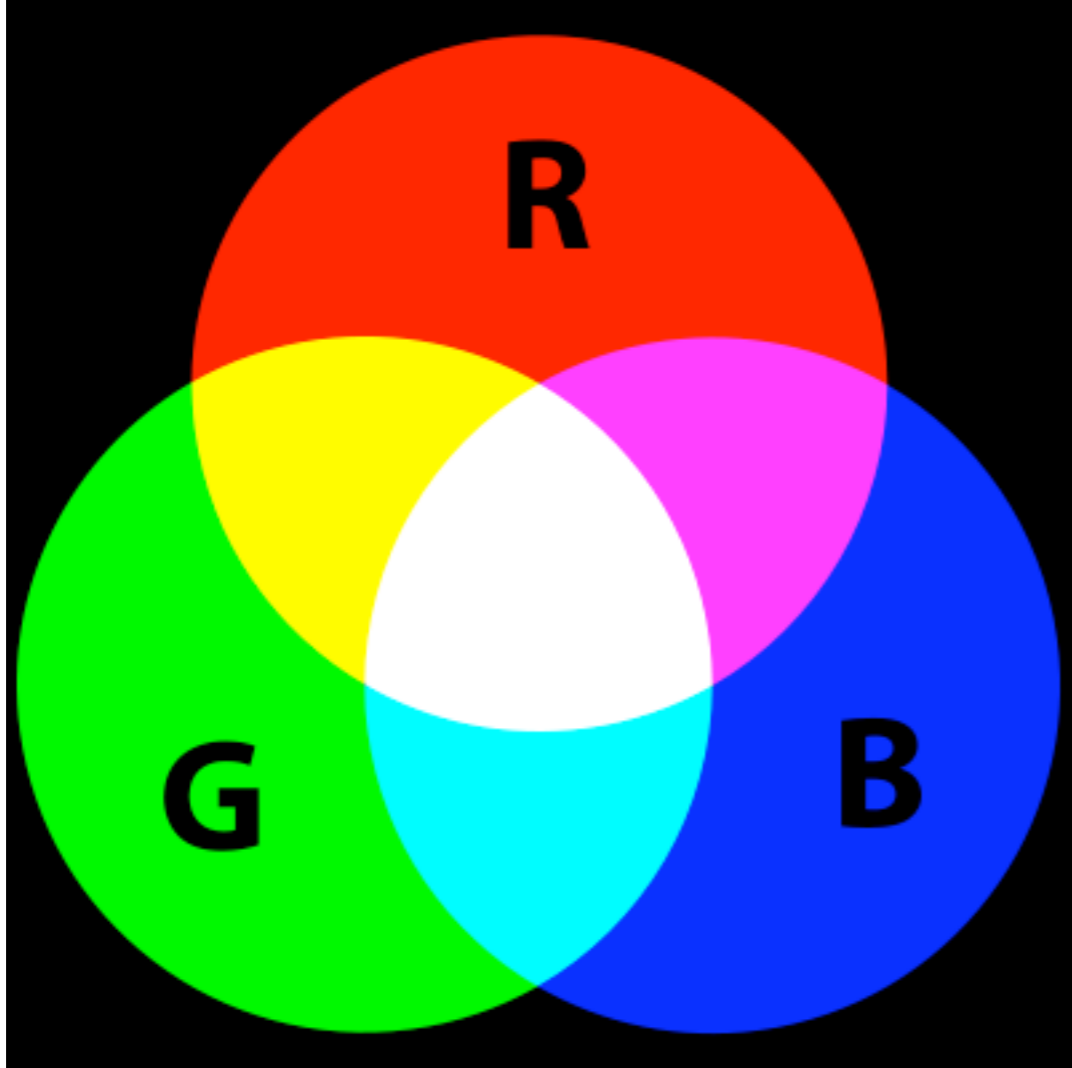
# theory



- *Was 23 years old in 1666*
- *experimented with a rainbow*
- *Identified seven spectral hues*
- *red, orange, yellow, green, blue, indigo, violet*
- *Recognized that white (light) is made up of all spectral hues.*

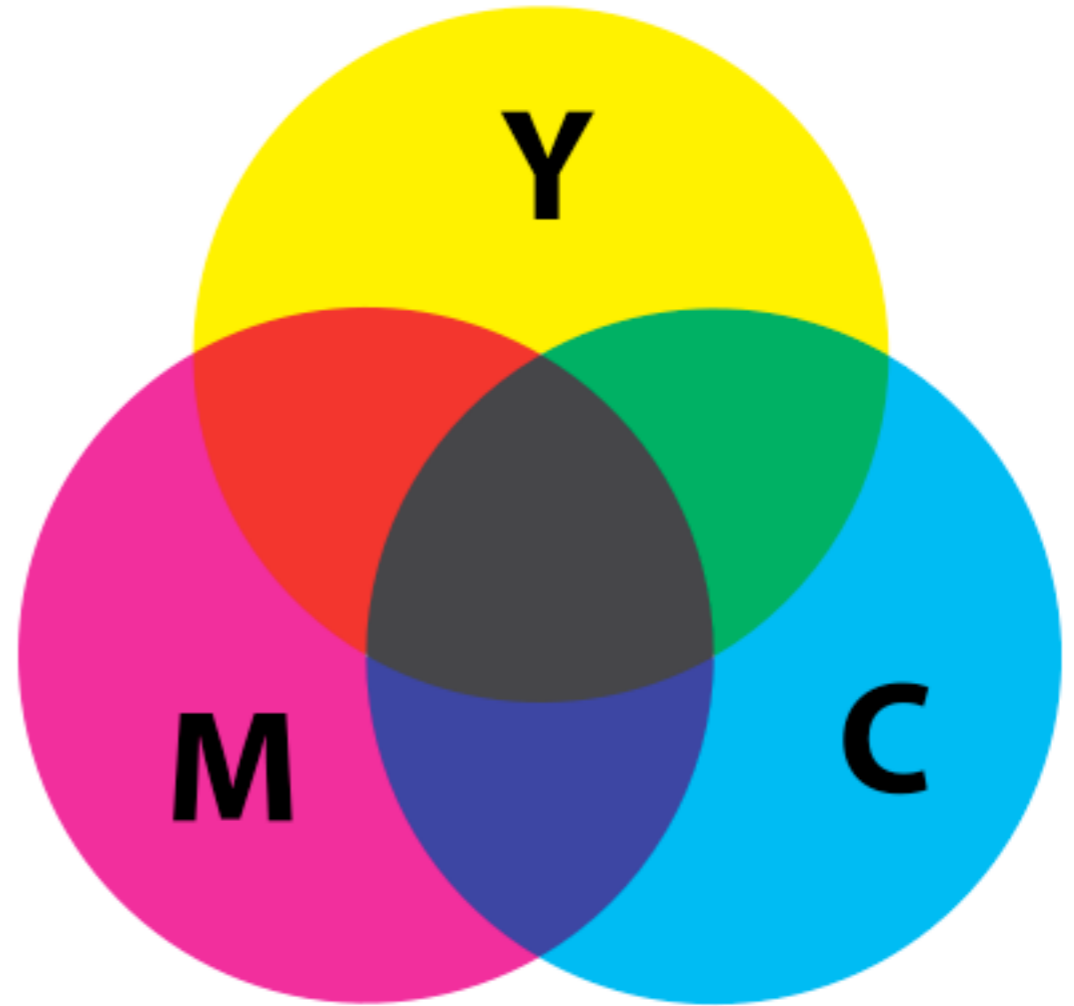


He divided the colors of the spectrum  
in to seven hues because the a musical octave  
is divided into seven notes **A, B, C, D, E, F, & G.**



**additive**

light

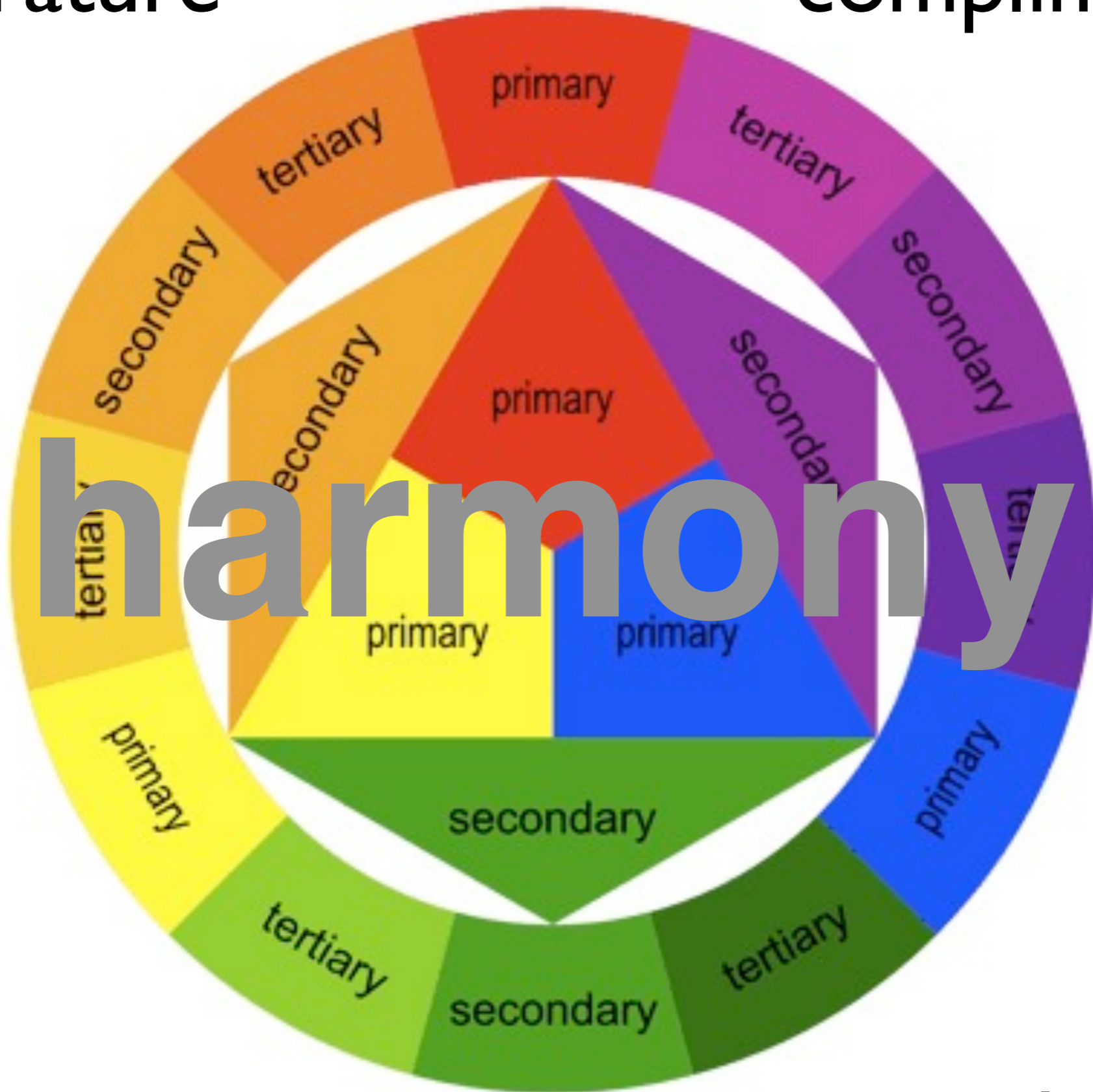


**subtractive**

pigments

temperature

complimentary



harmony

analogous

chromatic





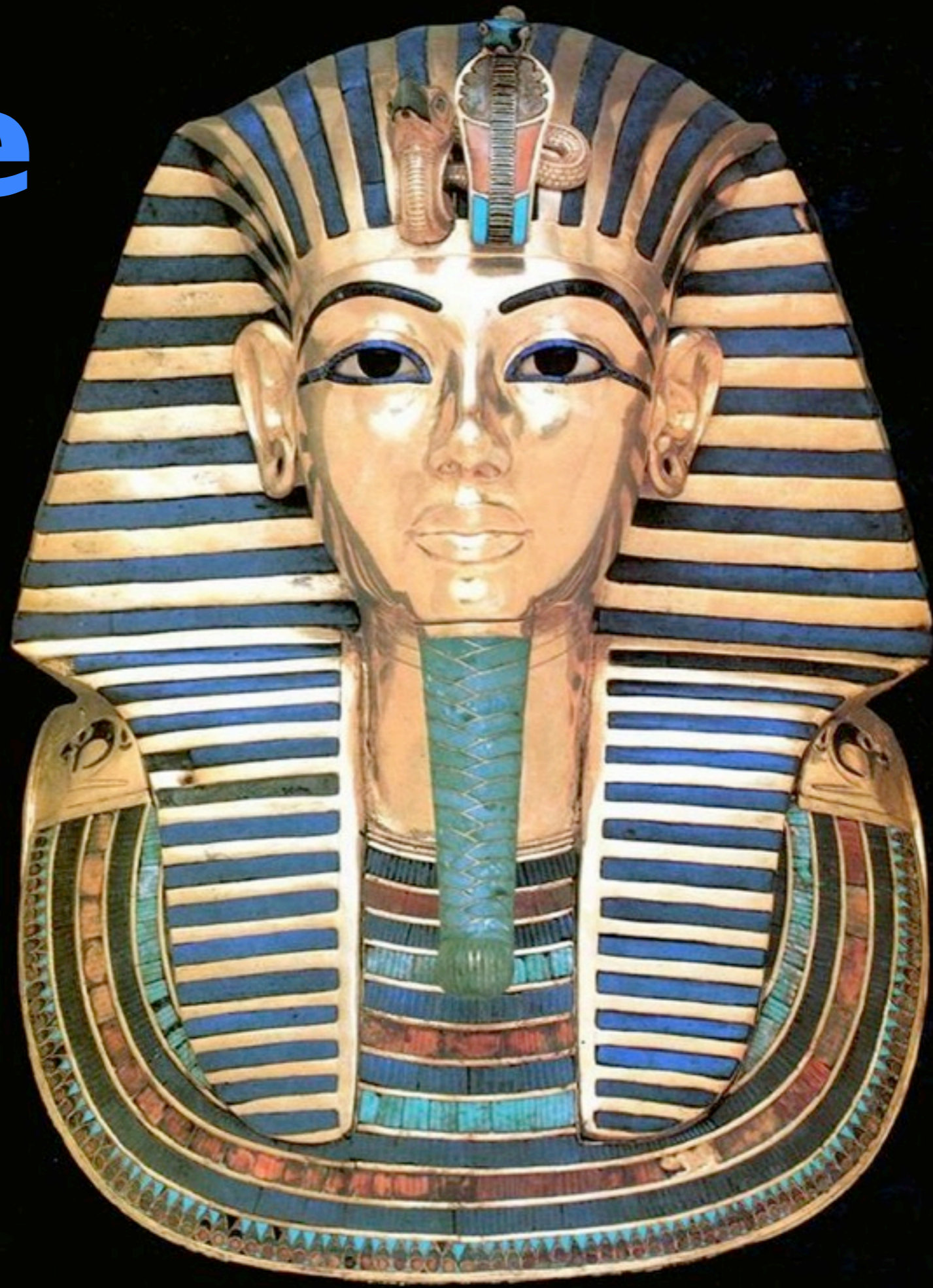
**world of colorants**

# pigments + dyes

**plants**  
**animal**  
**minerals**  
**metals**  
**seashells**  
**synthetic**



blue





**lapis lazuli**



**gold**

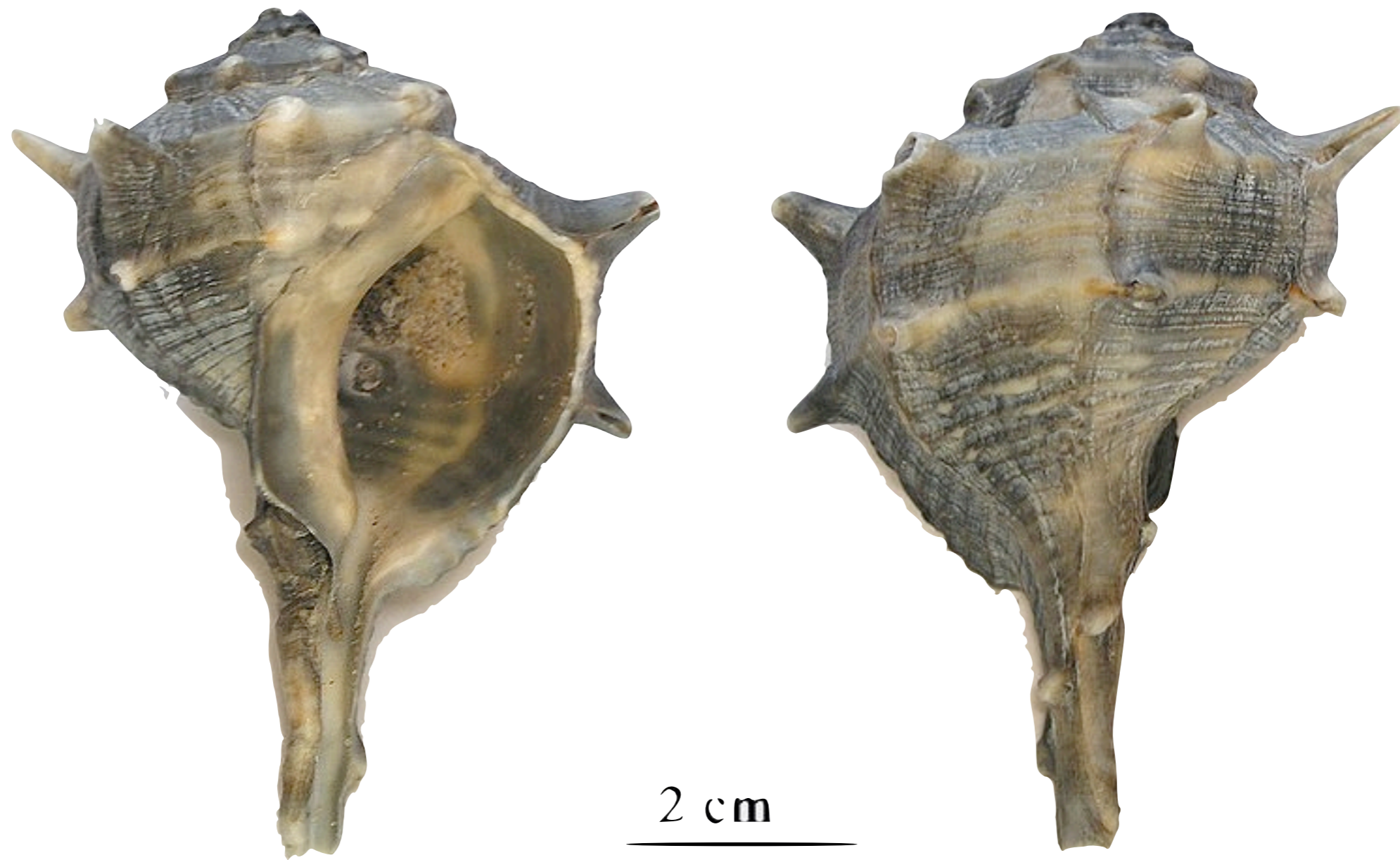




indigo



purple



12000 murex : one royal purple toga



**red**

kermes red





cochineal **bugs**

*Fig. 1.* Indio que recoge la Cochinilla con una colita de Venado, *Fig. 2.* dicha. *Fig. 3.* Xicalpeste en que apanan la Cochinilla.

**insect's blood  
as carmine red**



**yellow**



**ochre**



Altamira



cow eating **mango** leaves

Emperor



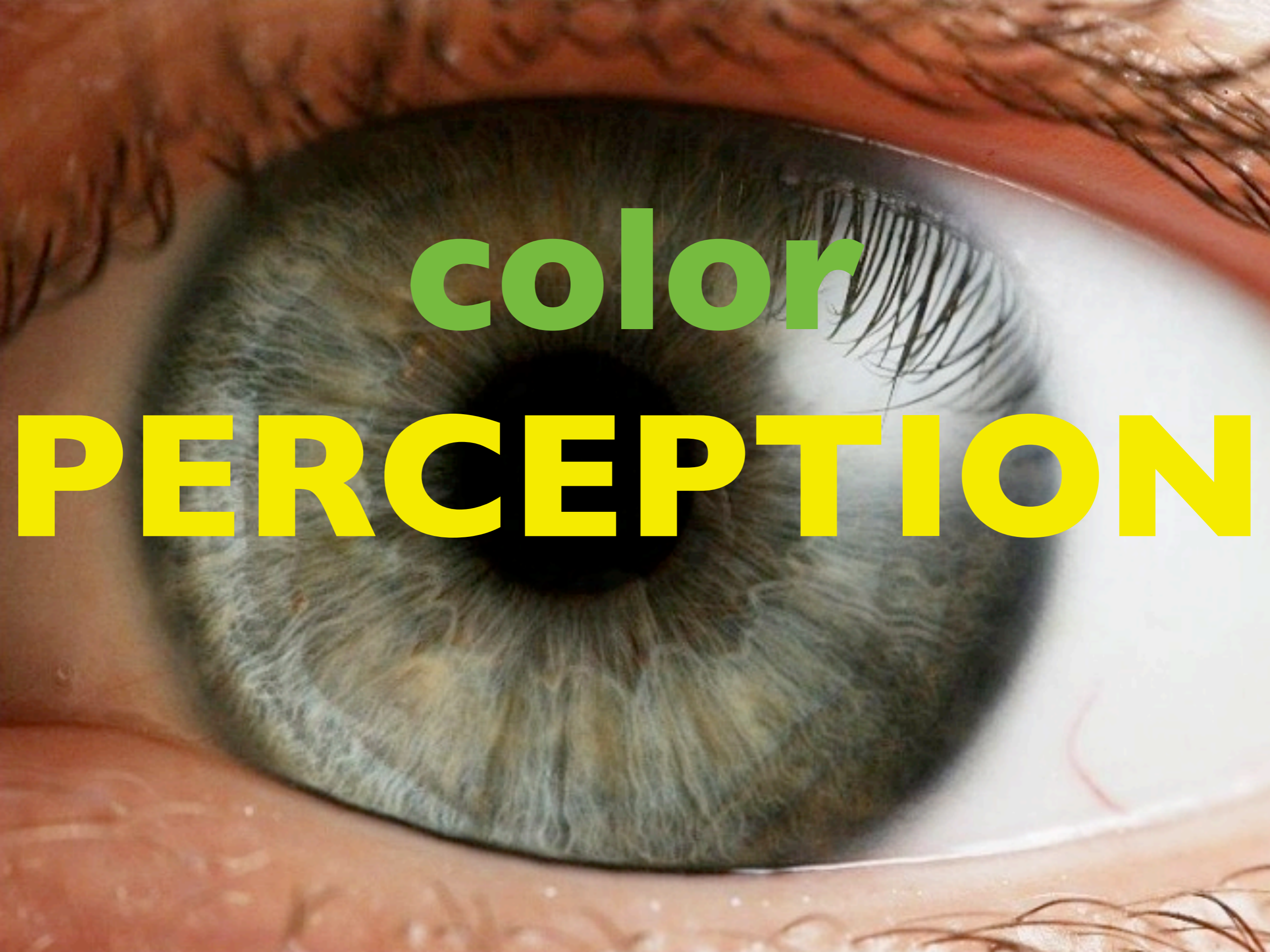
**major**

**problems**

**in understanding**

**knowledge**

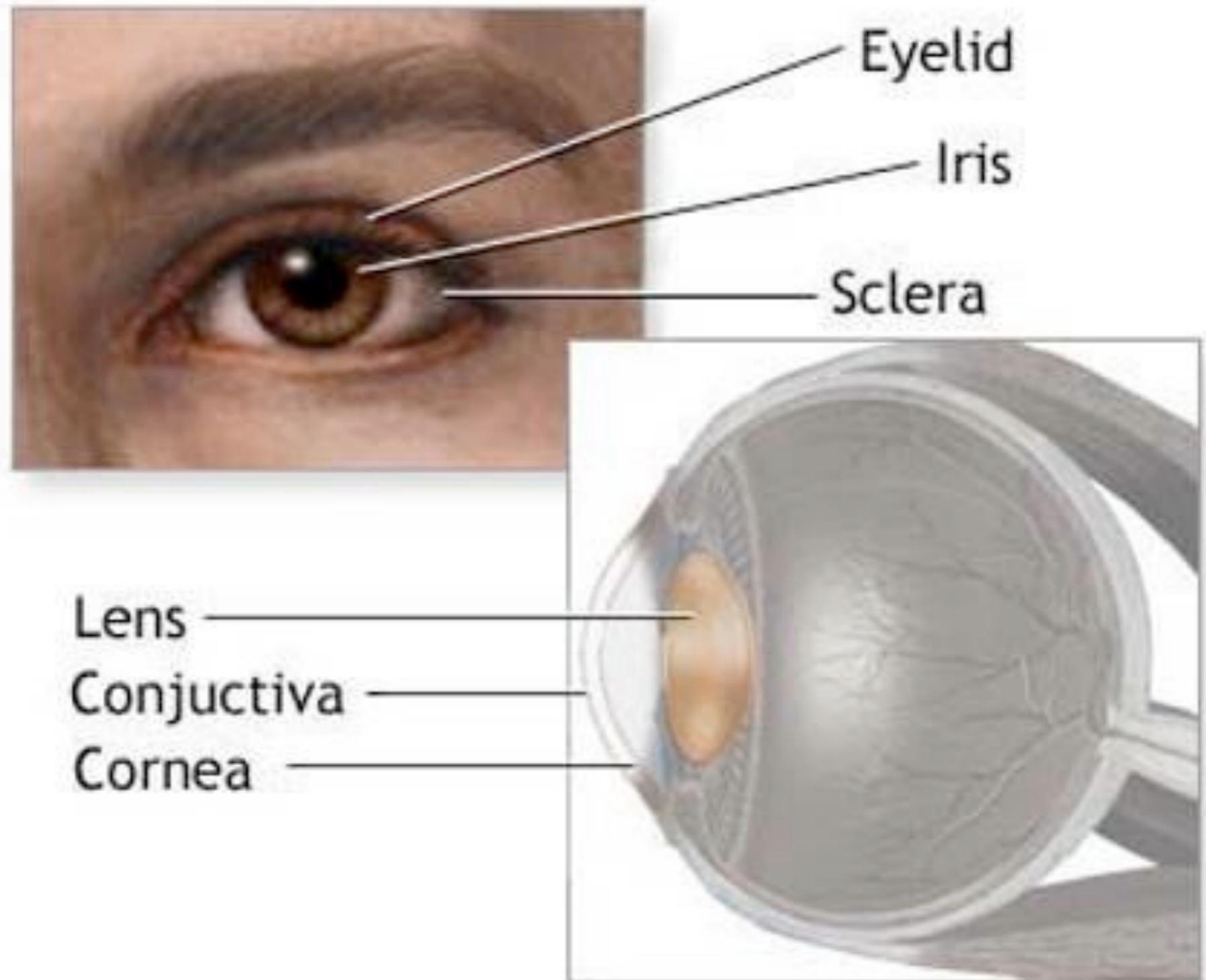




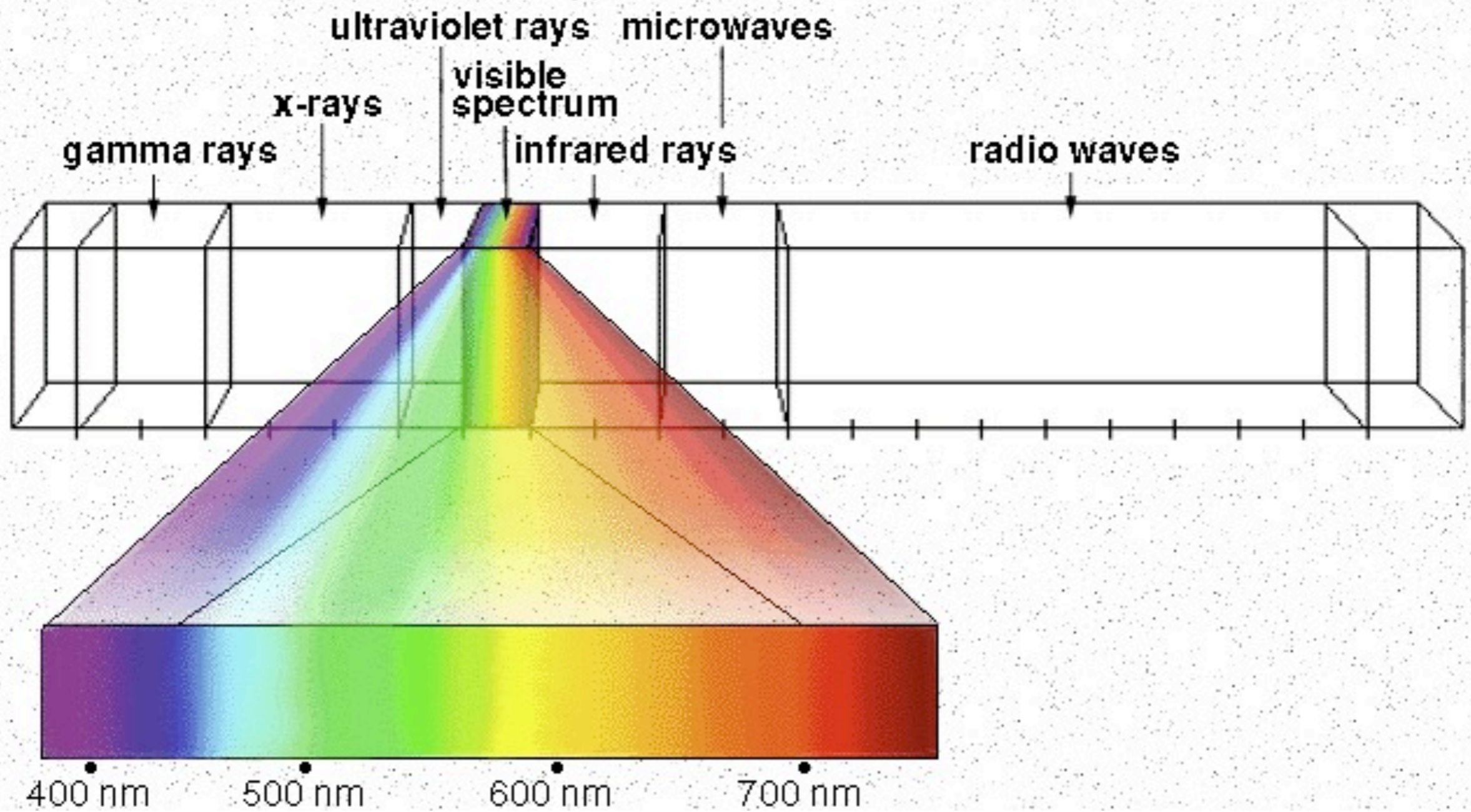
color

PERCEPTION

# protein - camera

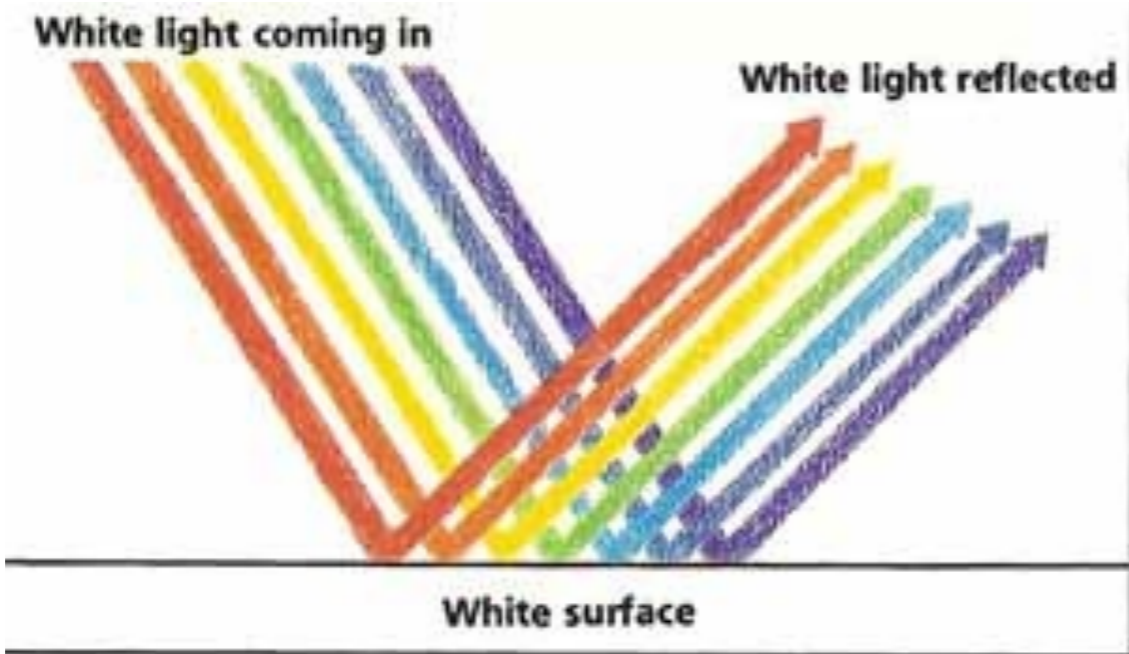




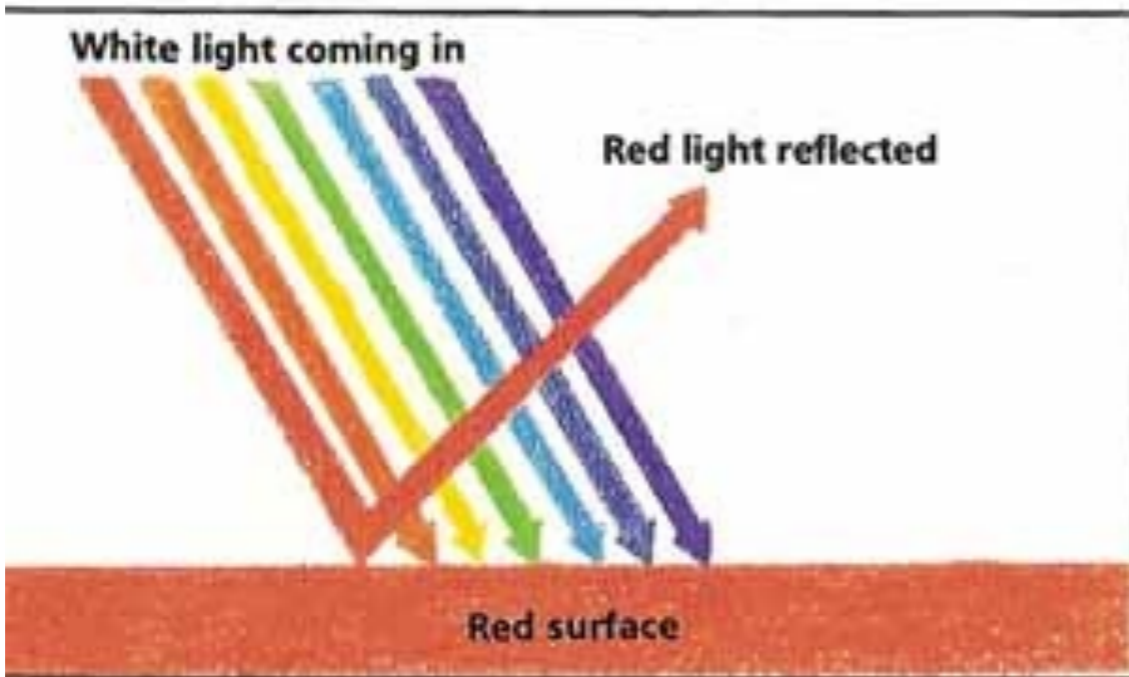


**1 out of 69 octaves = 10 million colors**

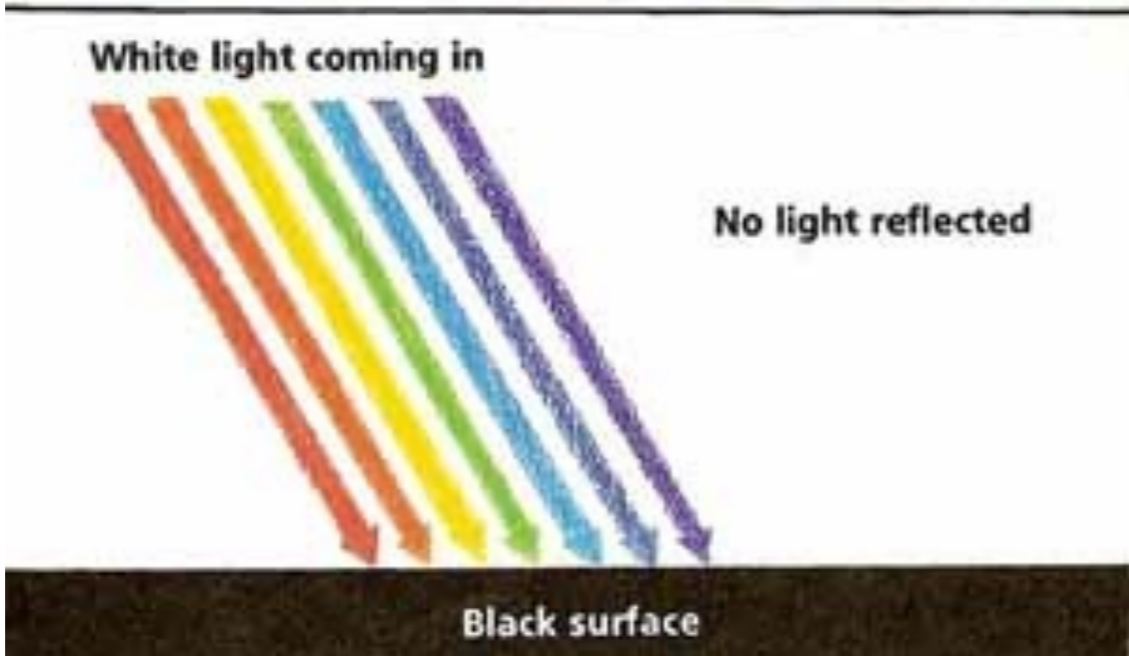




white

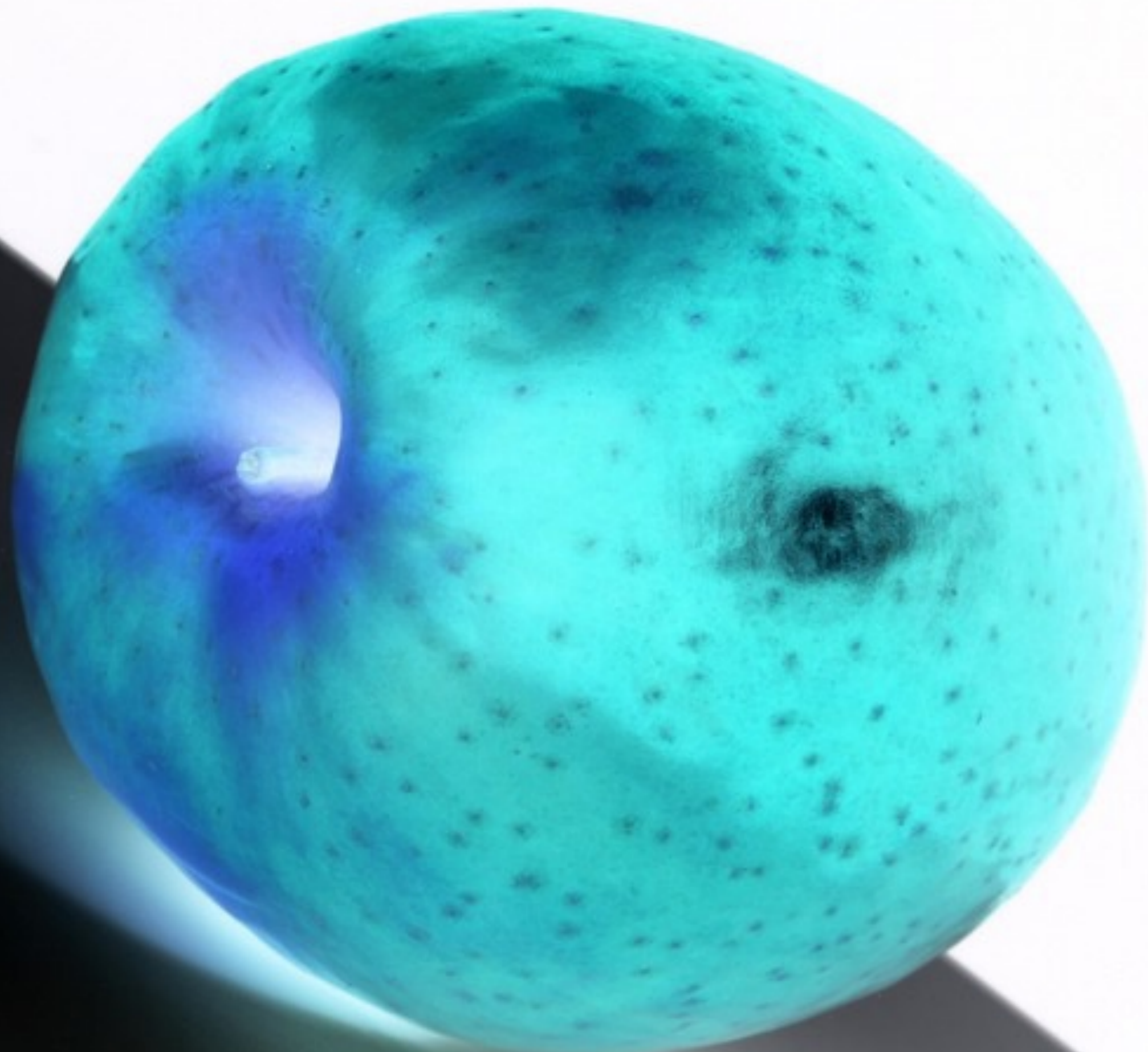


red



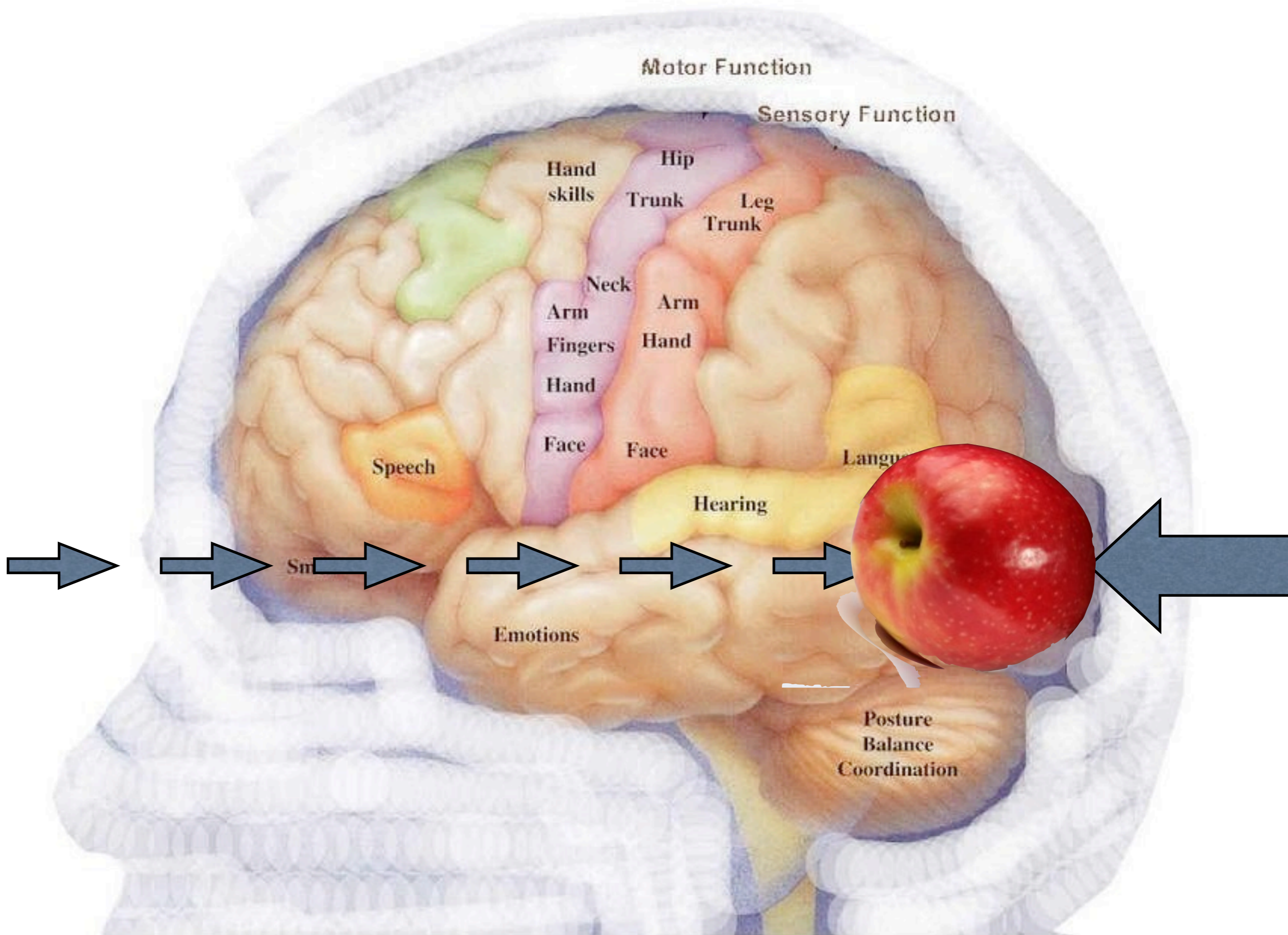
black











a strange desire called  
**REALITY**



BIRKELAND  
BROS. WOOL LTD.

OPEN

RESTAURANT

RESTAURANT

3553



BIRKELAND  
BROS. WOOL LTD.

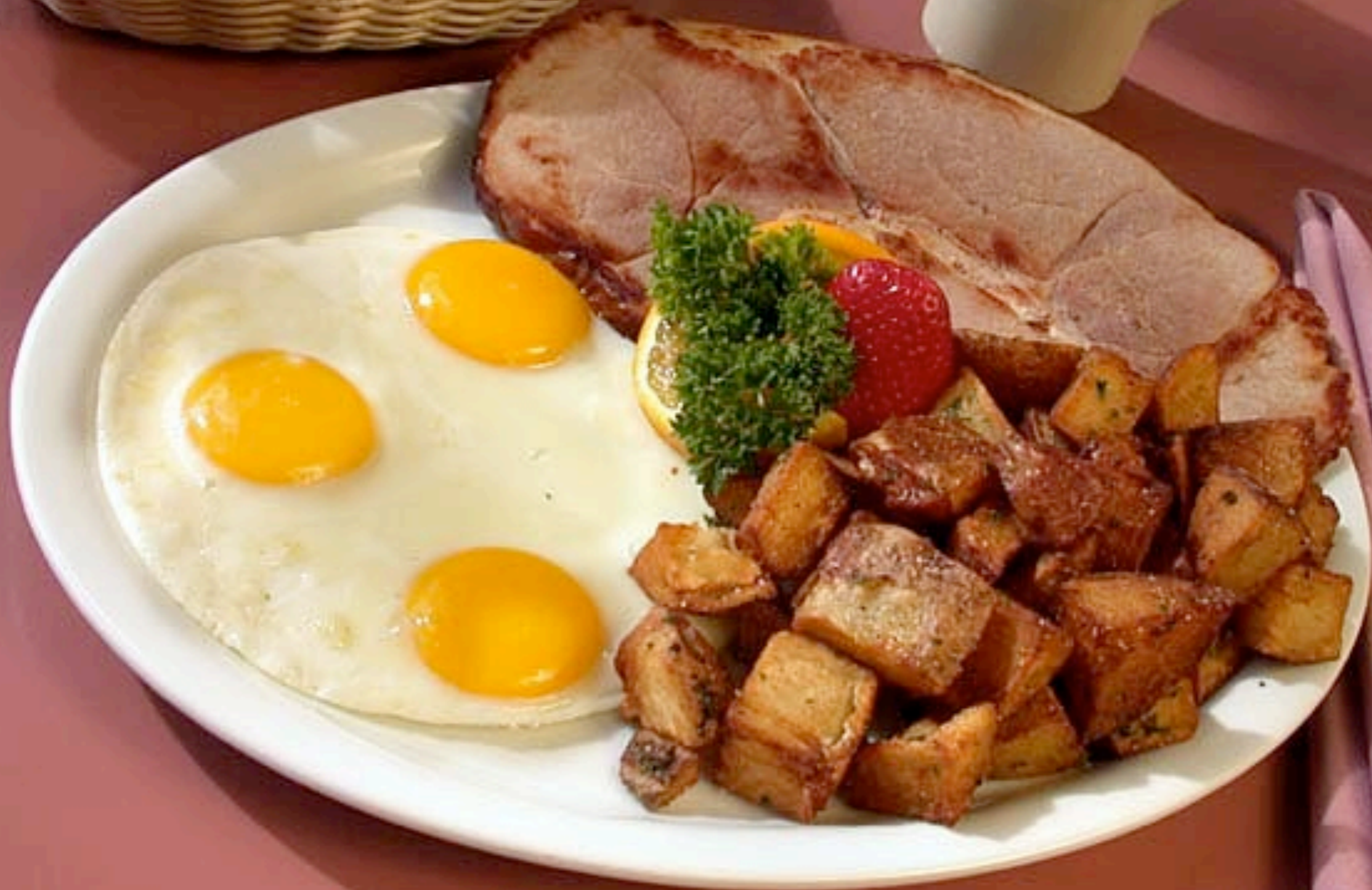
OPEN

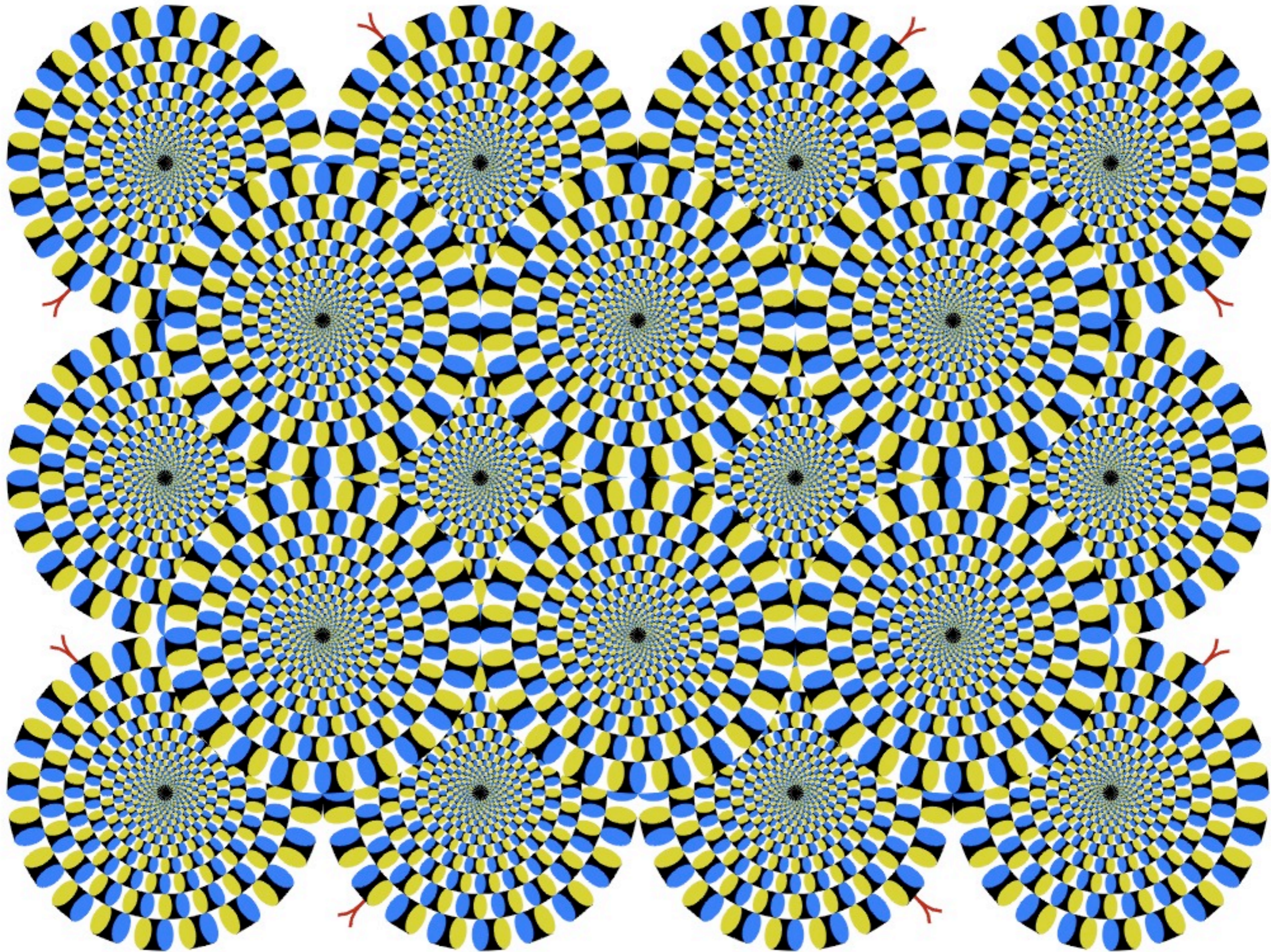
COPPER

COPPER  
INSPIRED  
DESIGN

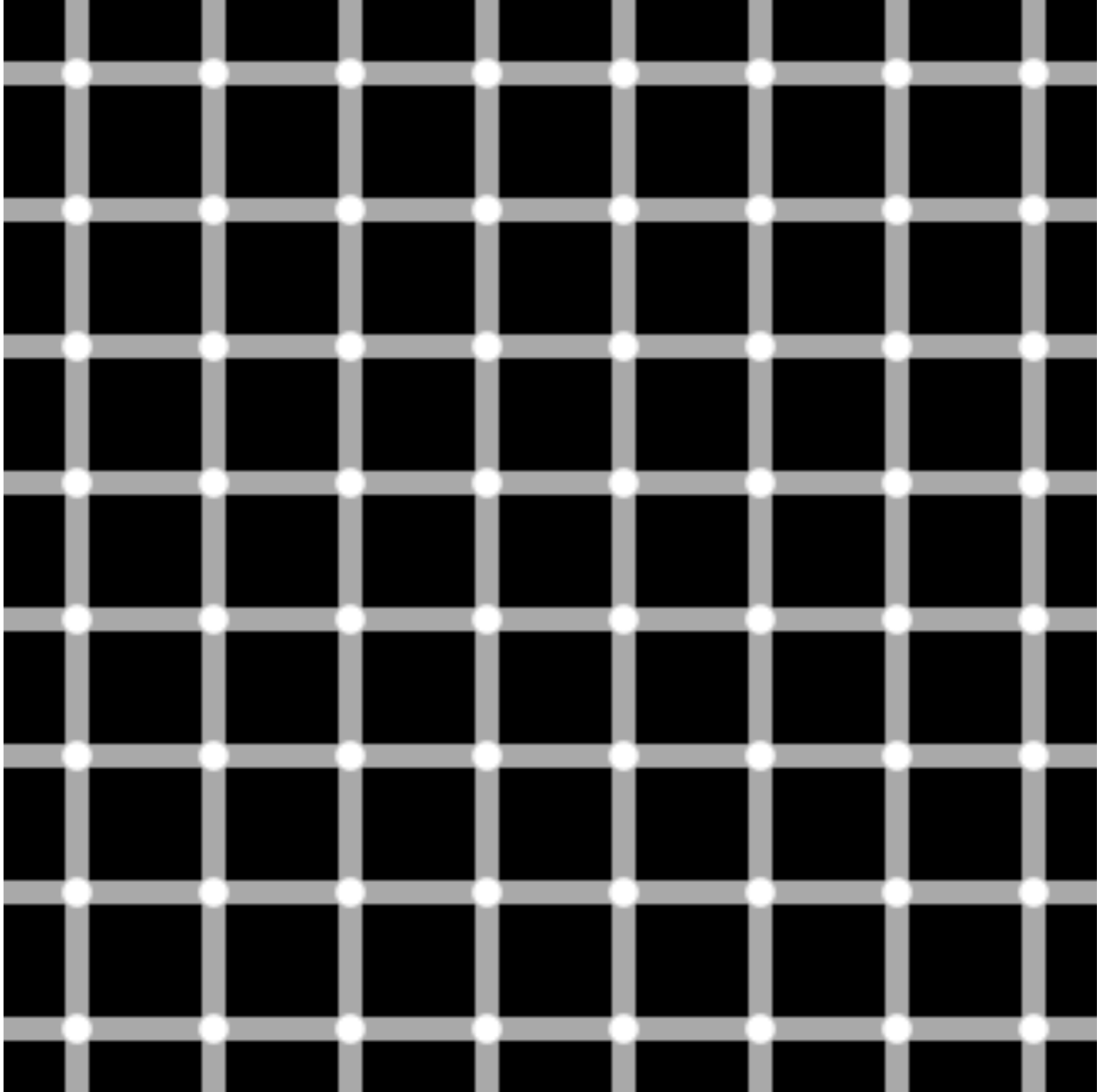
3553











Bezold grid



better

eyes





human eye



bee UV



marsupilas UV

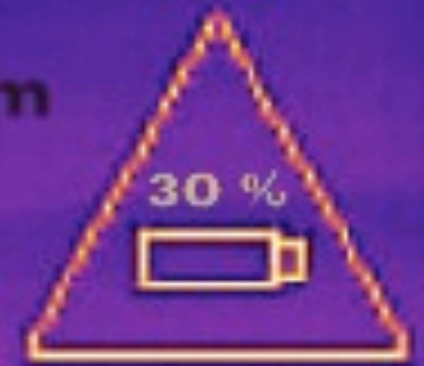


Auto Pan=Engaged / 12:25:05 AM / 07/22/2004



NW 12.5

Sierra Pacific Innovations (C) www.imaging1.com



**thermal vision**

WH / IRN  
Zm=1 / F1  
AGC=on

A night vision image of a room. The scene is captured in shades of green and black. In the center, there is a doorway or a door. To the right of the door, a person is visible, standing and looking towards the camera. The person appears to be wearing a dark jacket and light-colored pants. The floor is dark, and there is a bright, circular light source on the floor in the foreground, possibly a flashlight or a light fixture. The overall image is grainy and has a high-contrast, low-light appearance typical of night vision technology.

**night vision**

**YOUR PURPLE  
IS MY BLUE.**

Team Colorblind

**SEMIOTIC**

**problems**



“100 Inuit’s words for **snow**”



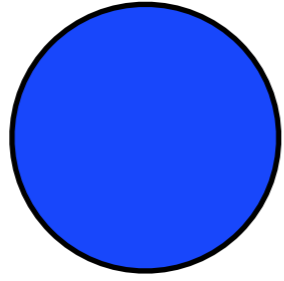
William Gladstone:

“Classical Greeks were **color blind**”

“Anyone who sees and paints a sky green and pasture blue, ought to be sterilized.”

A. Hitler

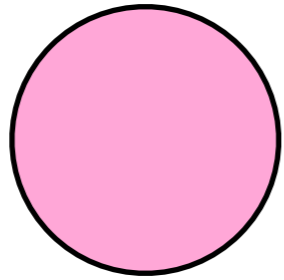
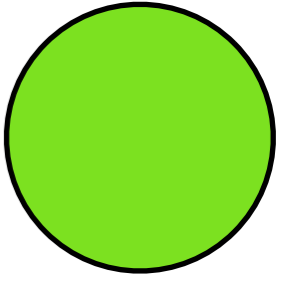




SADNESS



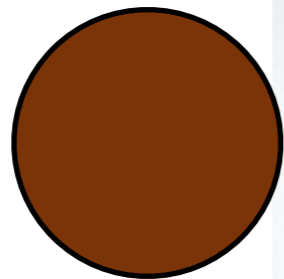
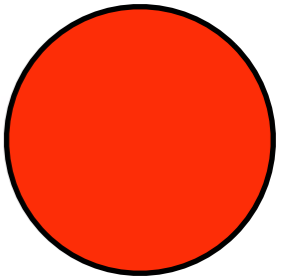
ANGER



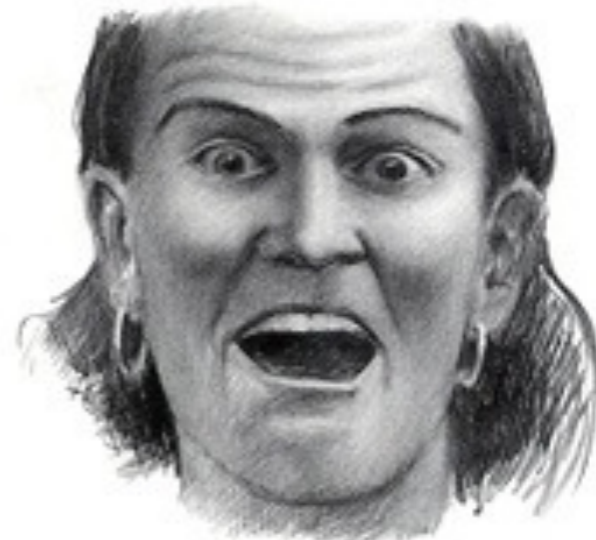
JOY



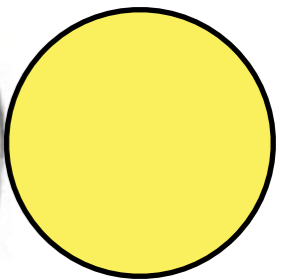
FEAR



DISGUST



SURPRISE



expressions

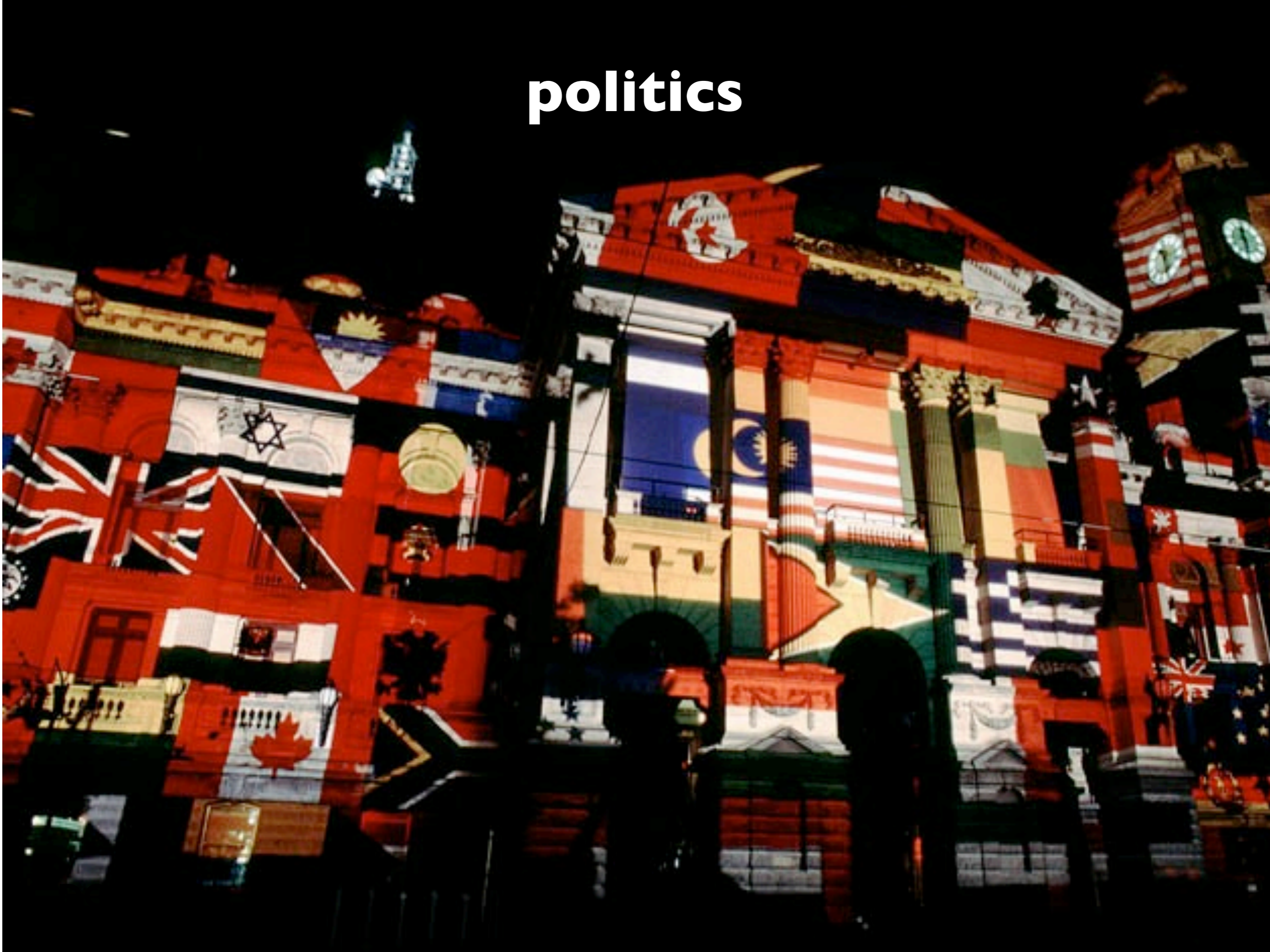


**beauty and pleasure**

**communication**



**politics**



# WARNING

**disciplinary division  
ahead!**

**Tao Te Ching** warns that  
**dividing** the world in colors  
would “**blind the eye**” to true  
perception.

**Analysis +  
Theory  
scientifism**





**analysis kills**

$$D = \frac{1}{c} \frac{1}{l} \frac{dl}{dt} = \frac{1}{c} \frac{1}{P} \frac{dP}{dt}$$

$$D^2 = \frac{1}{P^2} \frac{P_0 - P}{P} \sim \frac{1}{P^2} \quad (1a)$$

$$D^2 = \frac{K_0}{3} \frac{P_0 - P}{P_0} \sim \frac{1}{3} K_0 \quad (2a)$$

$$D^2 \sim 10^{-53}$$

$$\rho \sim 10^{-26}$$

$$P \sim 10^8 \text{ G. J.}$$

$$\tau \sim 10^{10} (10^{11}) \text{ J}$$

**theory is temporary**

**false certainty**



outcome



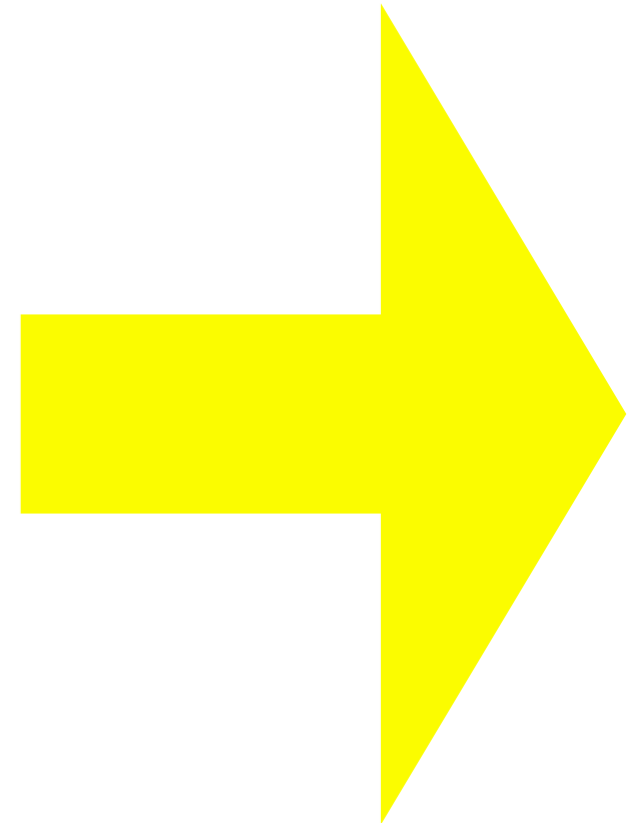
color “**STANDARD**”

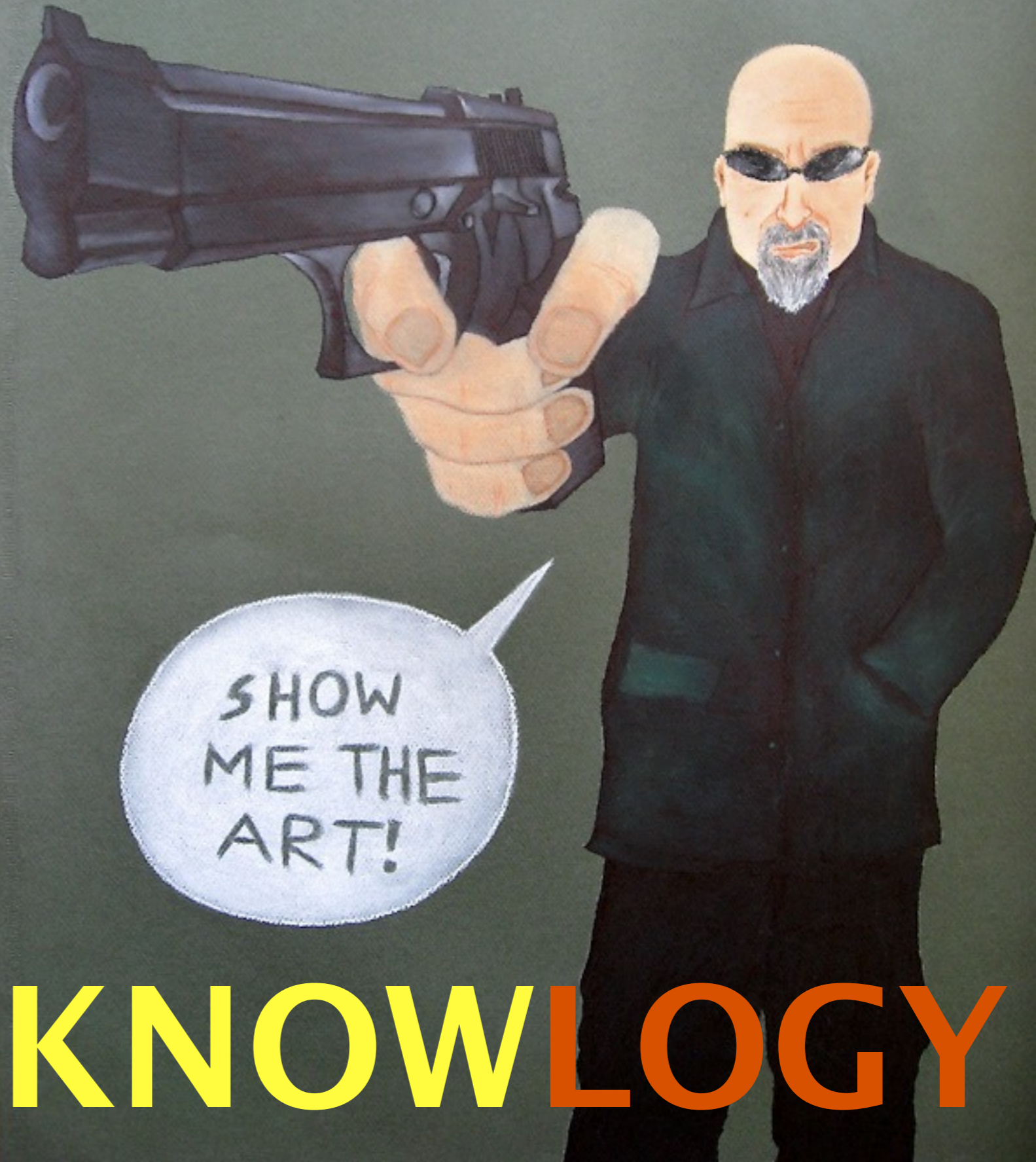


**world of numbers**

**WAY**

**OUT**





# CRIMIKNOWLOGY



A complex network diagram of the internet, showing a dense web of blue lines representing connections between various nodes. The nodes are represented by small icons and logos, including 'zotero', 'Google', 'WordPress', 'Technorati', 'swicki', 'digg', and 'gathering'. The text 'errare humanum est' is overlaid in large, bold, yellow letters across the center of the network. In the bottom left corner, there is a copyright notice: '© 2006 Flynn-Burns' and a 'digg' logo.

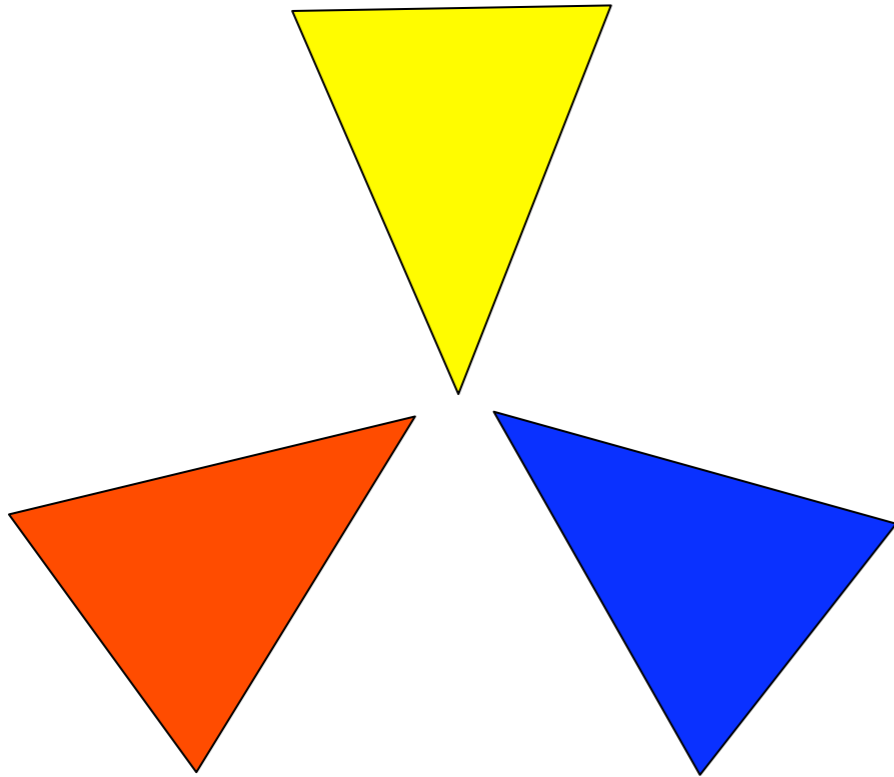
errare  
humanum  
est

© 2006 Flynn-Burns

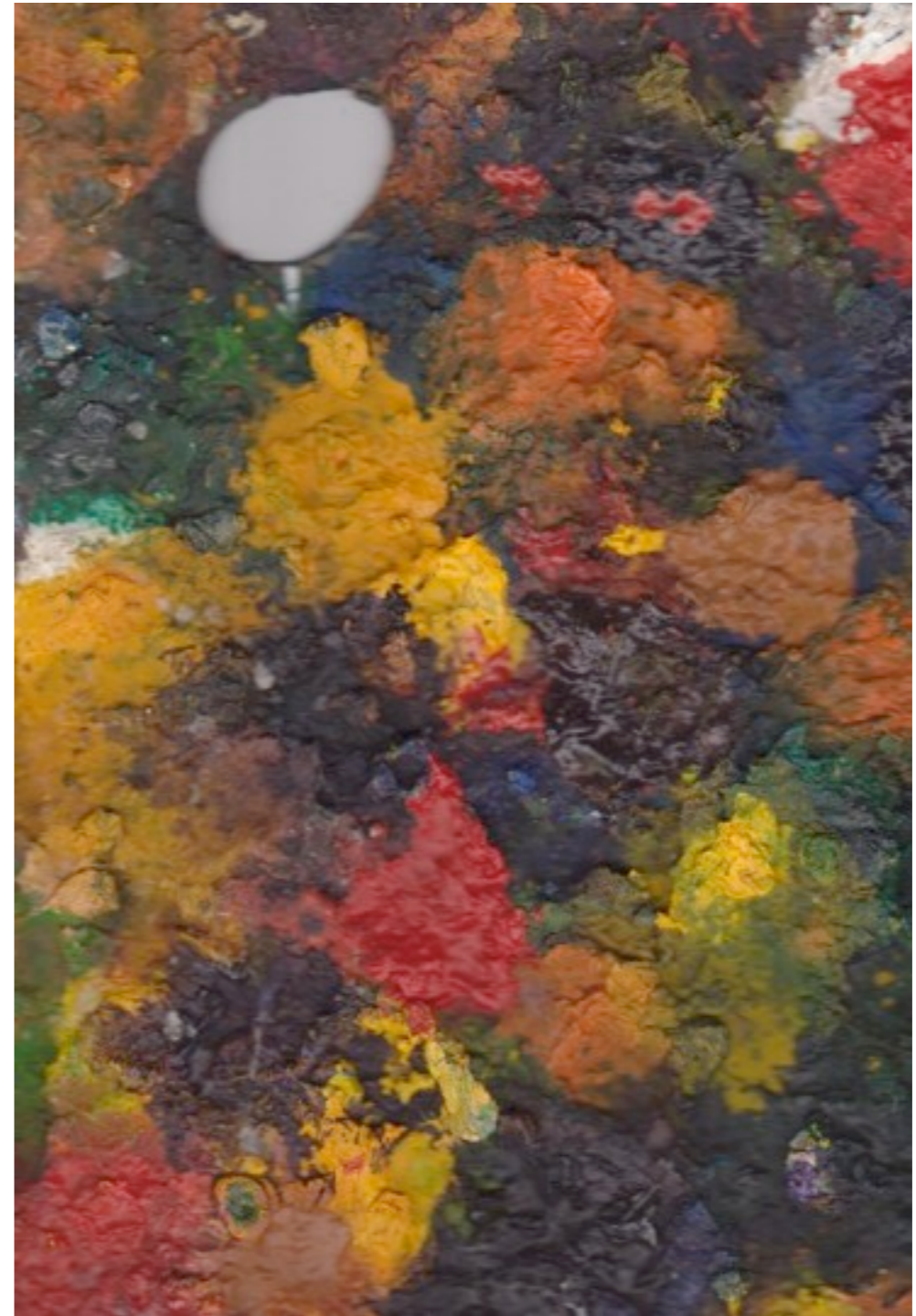
THE INTERNET

It's not just for pornography anymore.

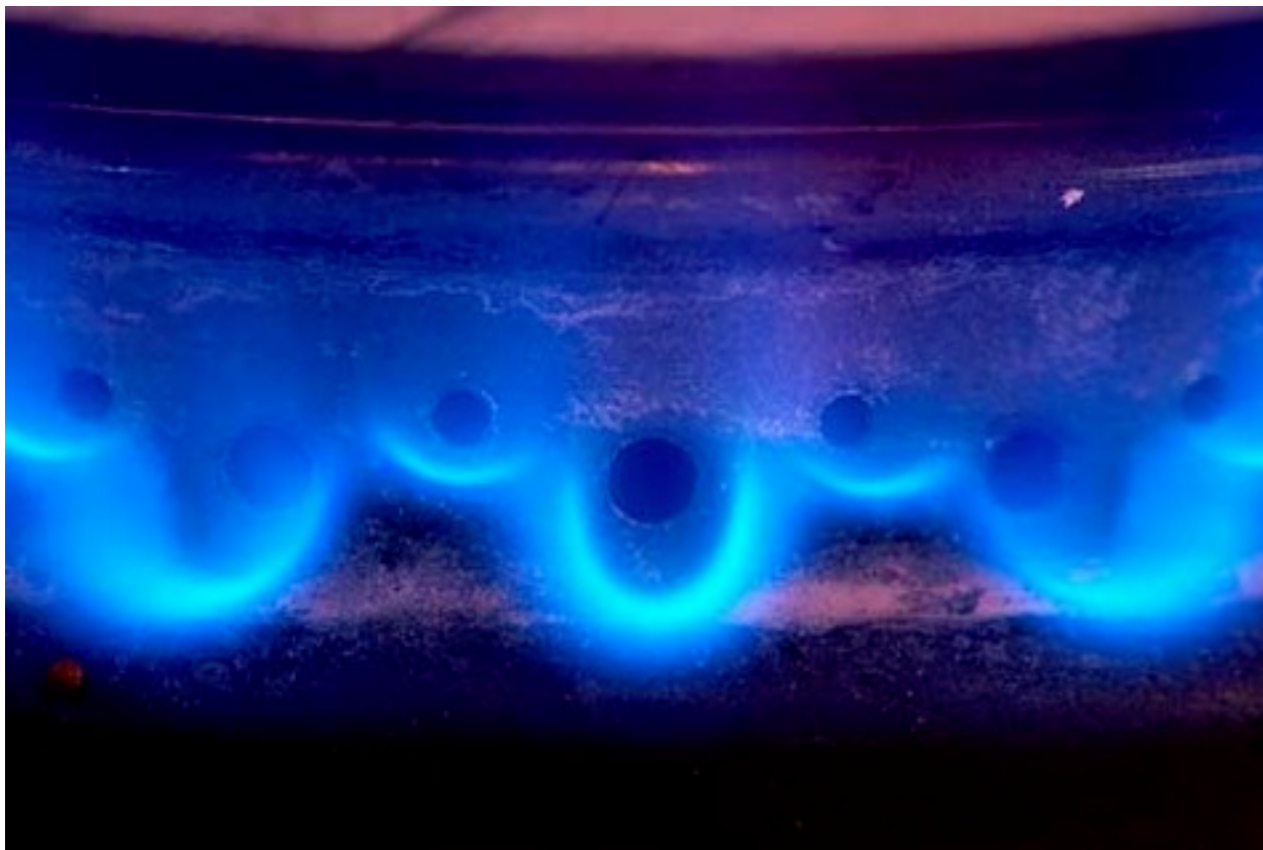
# simplification (Okham's razor)



mixing colors



# experience



# extrapolation



black

INDUCTIVE

THINKING

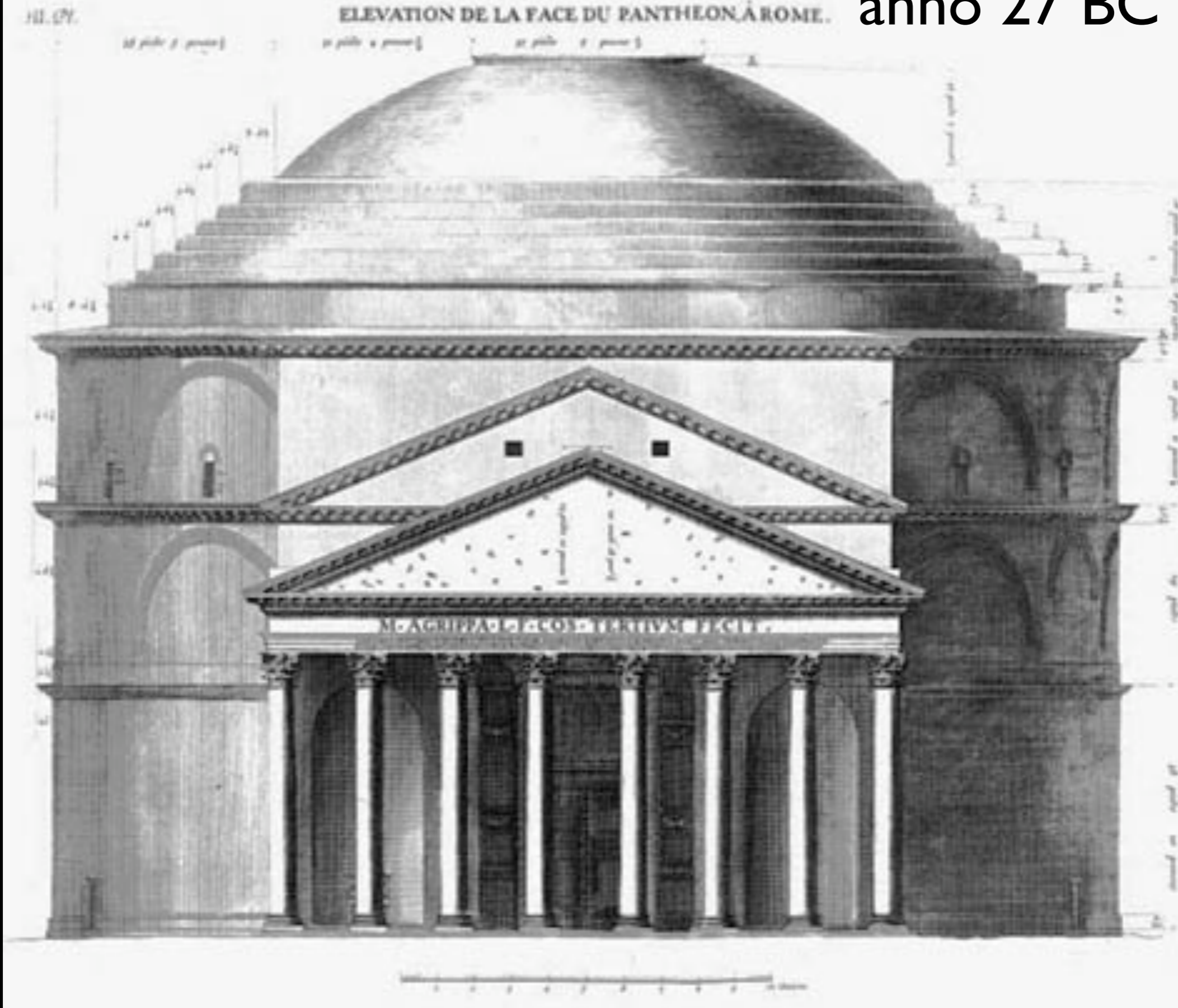
[ synthesis VS analysis ]

# Walter Murch: movie editor

- The Godfather
- Apocalypse Now
- The Conversation
- THX-1138



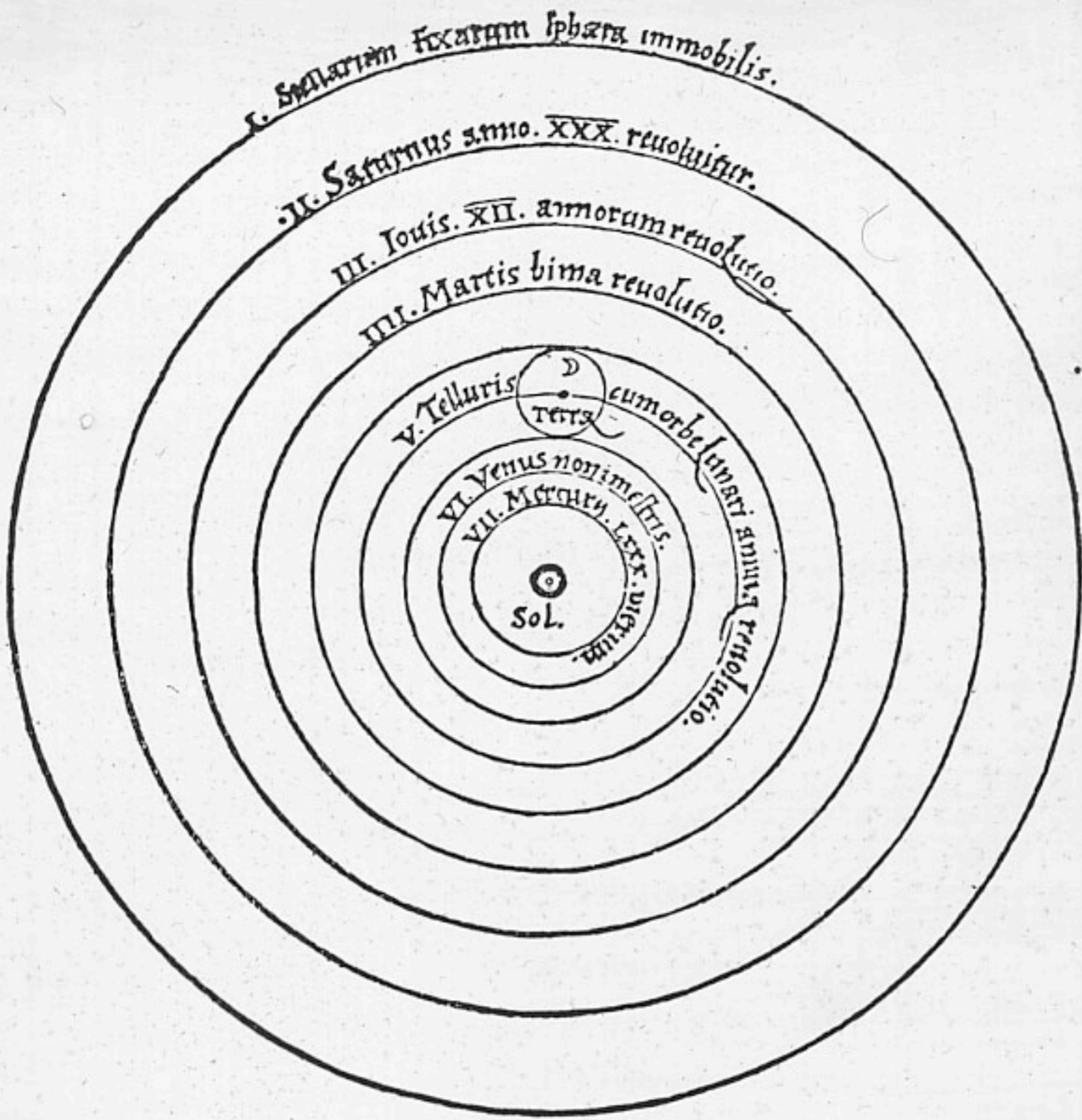
anno 27 BC





[www.ymago.net](http://www.ymago.net)





I. Saturnum fixatam h[ab]ere immobilis.

II. Saturnus anno. XXX. reuoluitur.

III. Iouis. XII. annorum reuolutio.

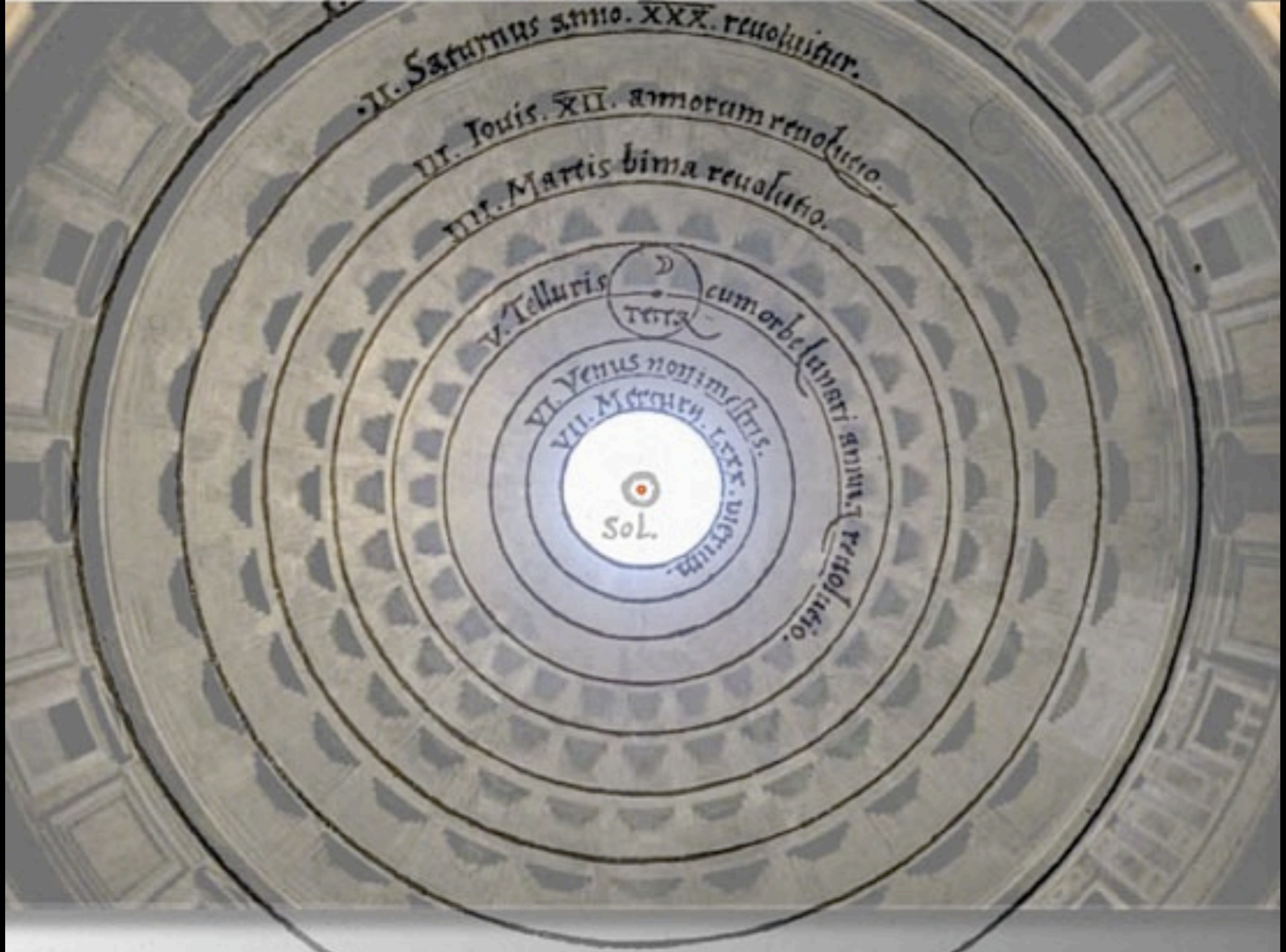
III. Martis bima reuolutio.

V. Telluris cum orb[e] lunari annu[m] reuolutio.

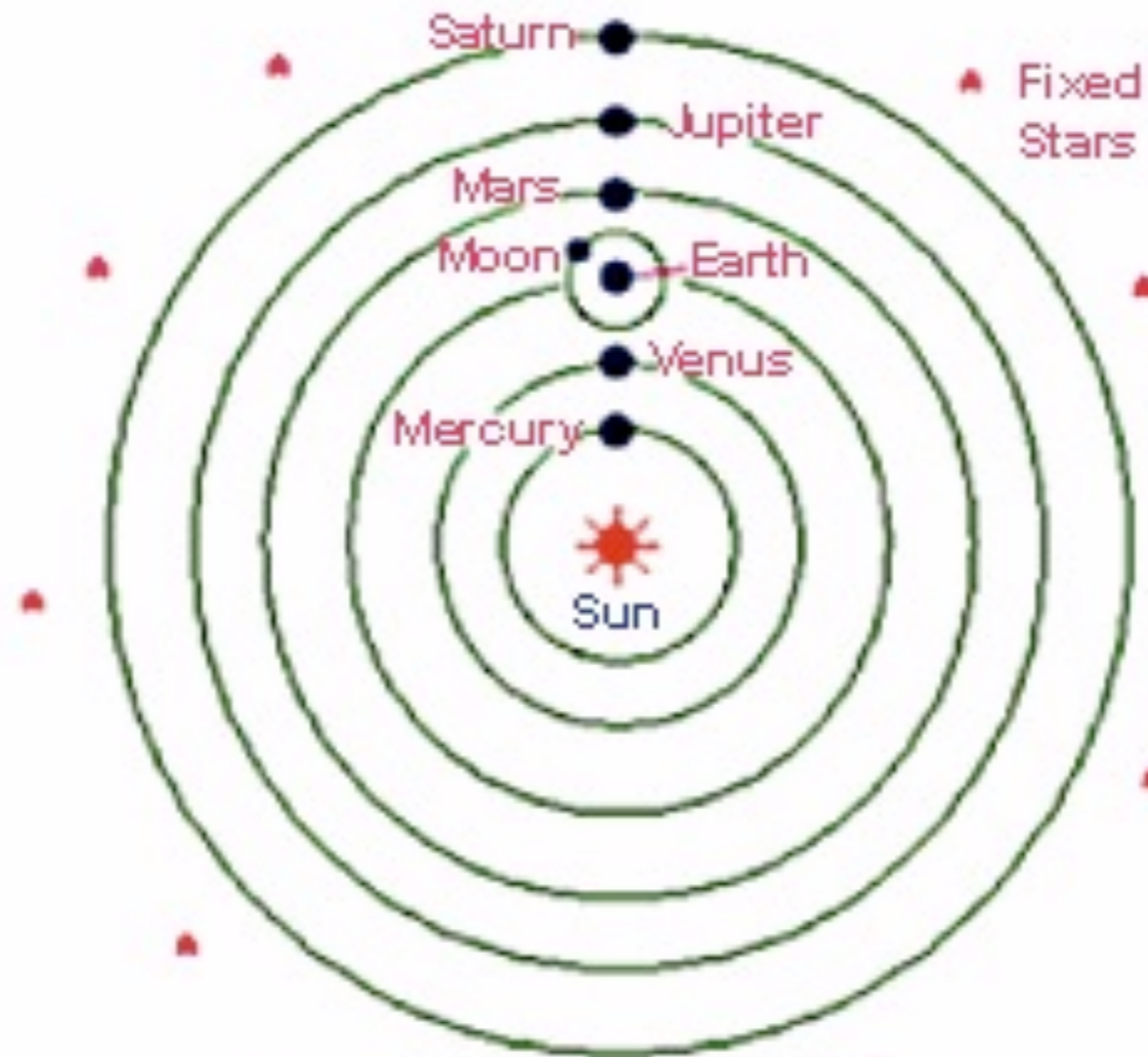
VI. Venus nonim[en]sis.

VII. Mercurij. LXX. die[rum] reuolutio.

SOL.



# Heliocentric planetary system **long before** **Copernicus**



Copernicus' Universe

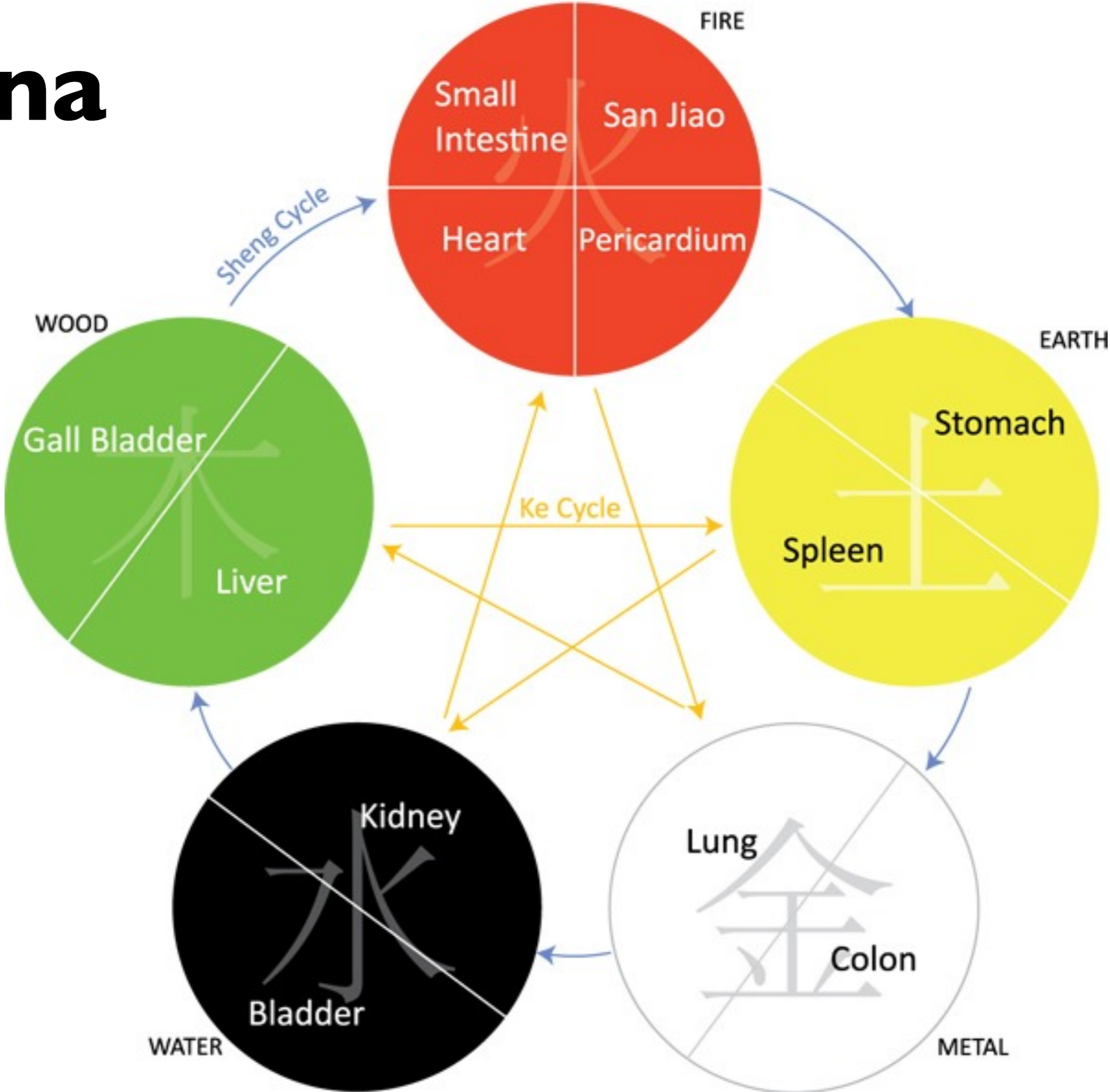
**Without past**

**there is no**

**future.**

pre-cultures

# China

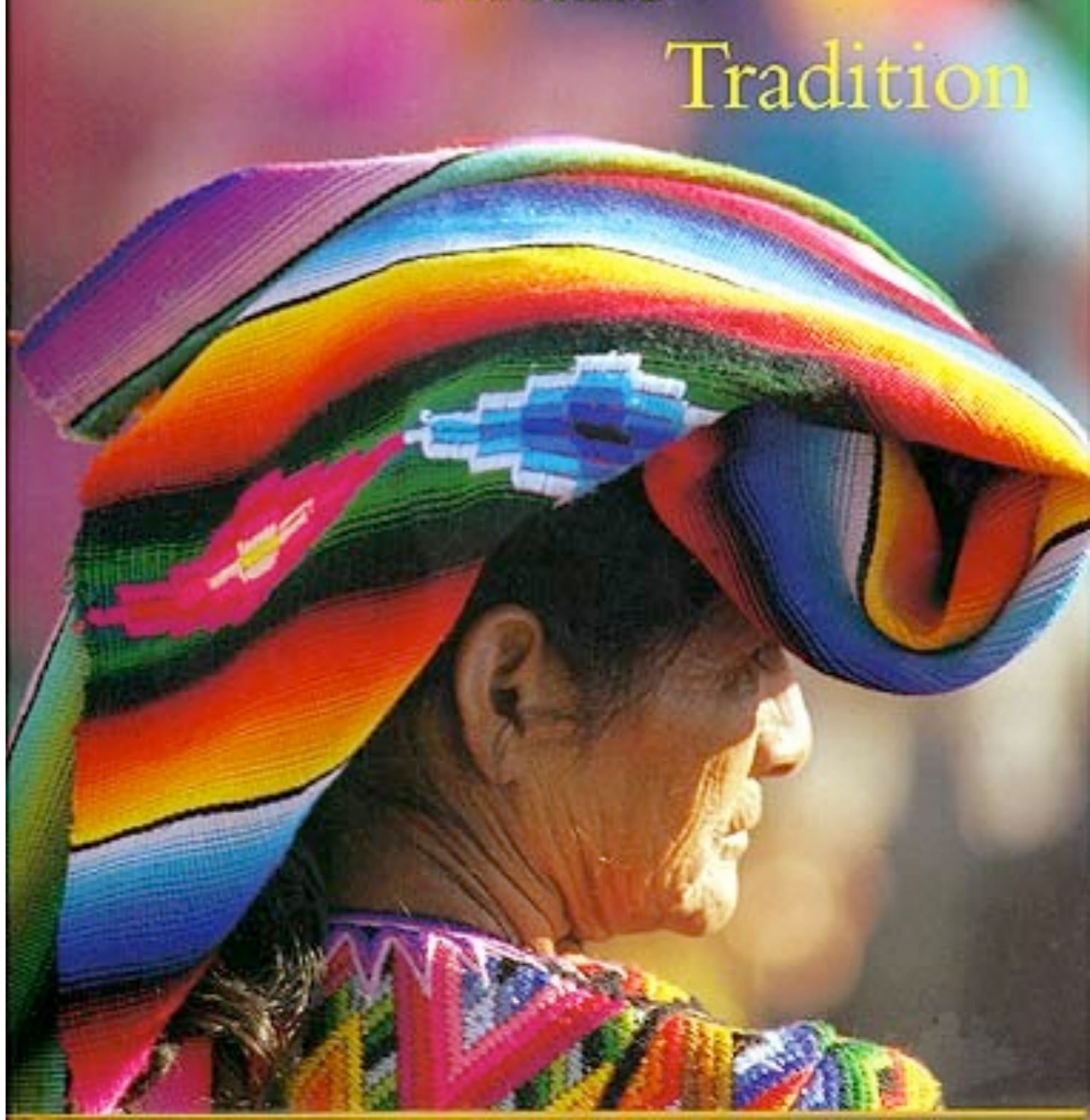




**India - harvest festival**

Tradition

**Maya**



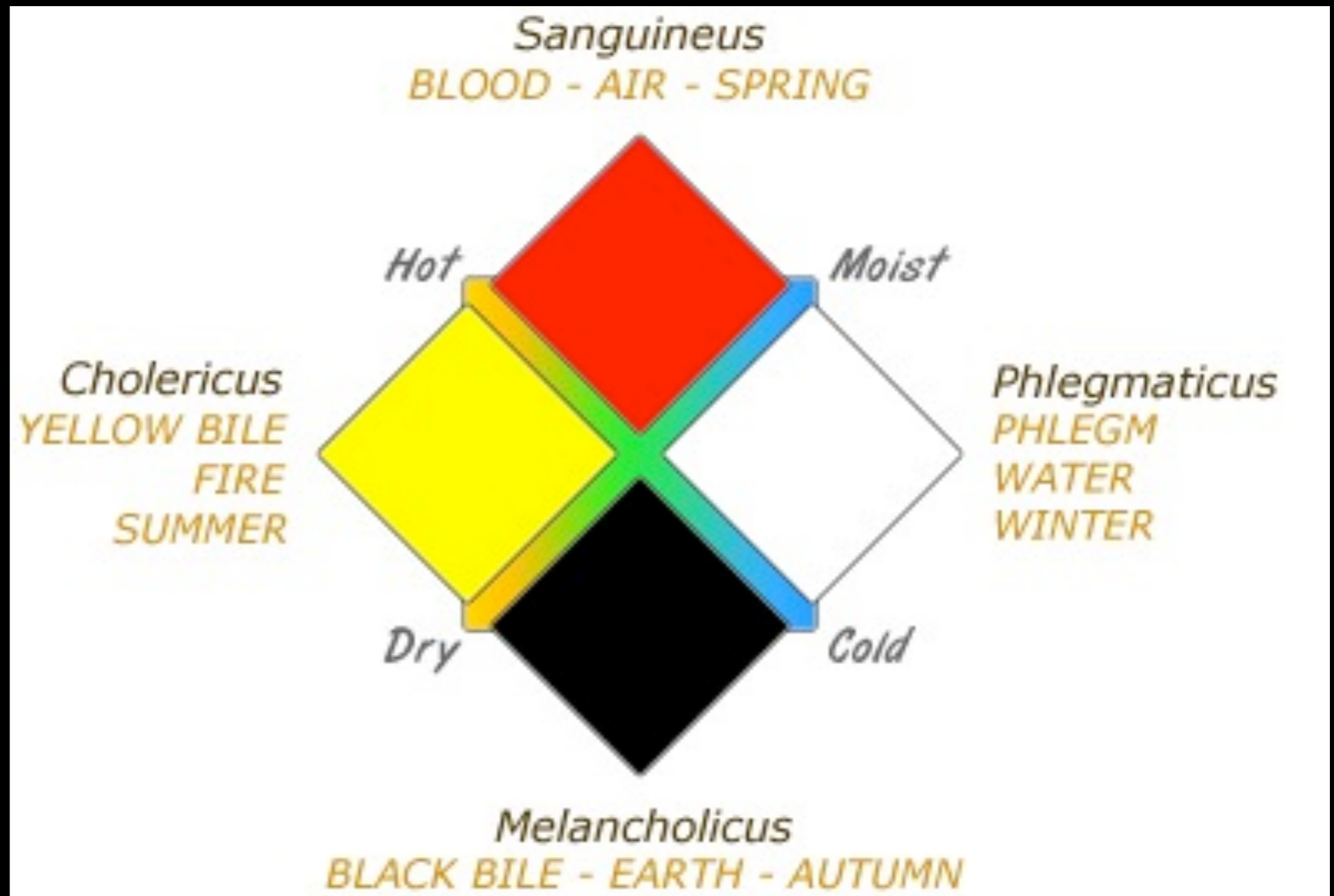




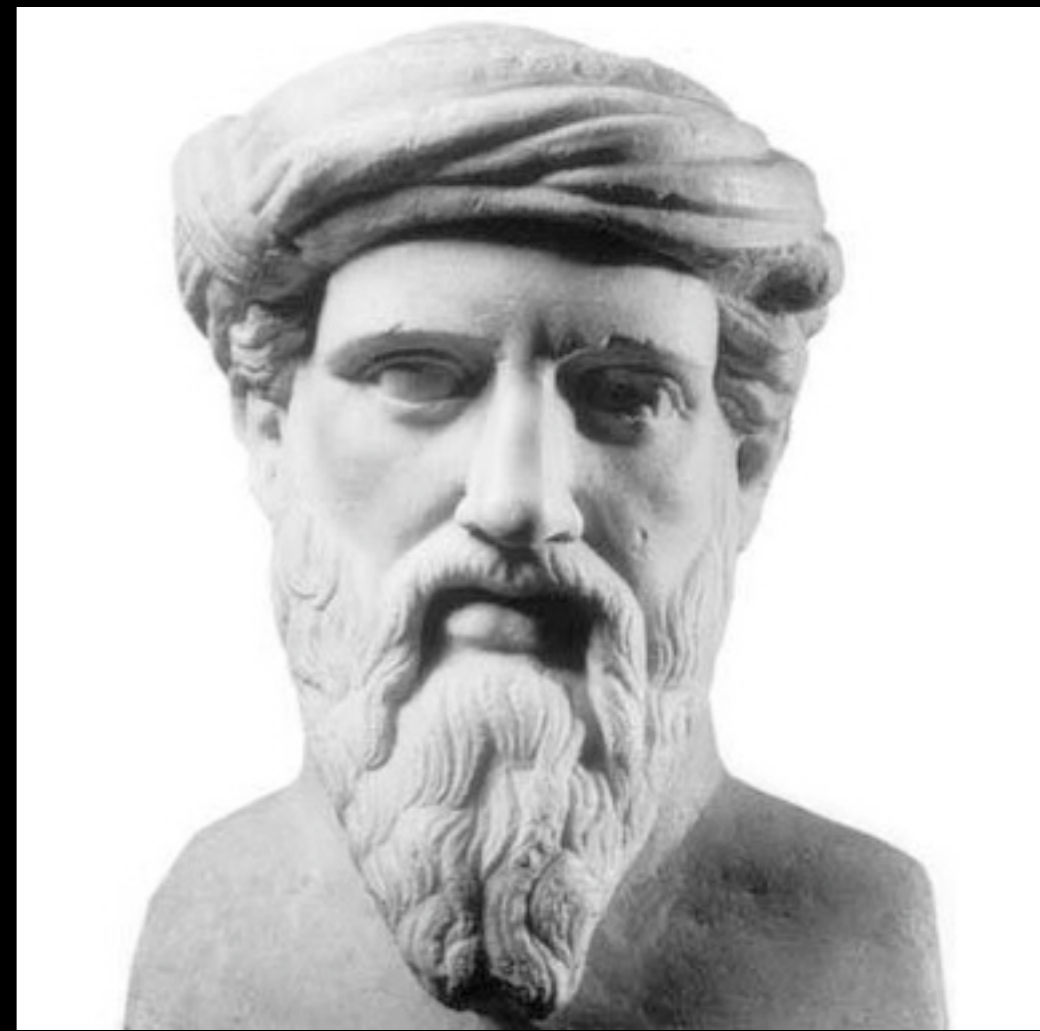
# western world

*Greeks*

four  
humors

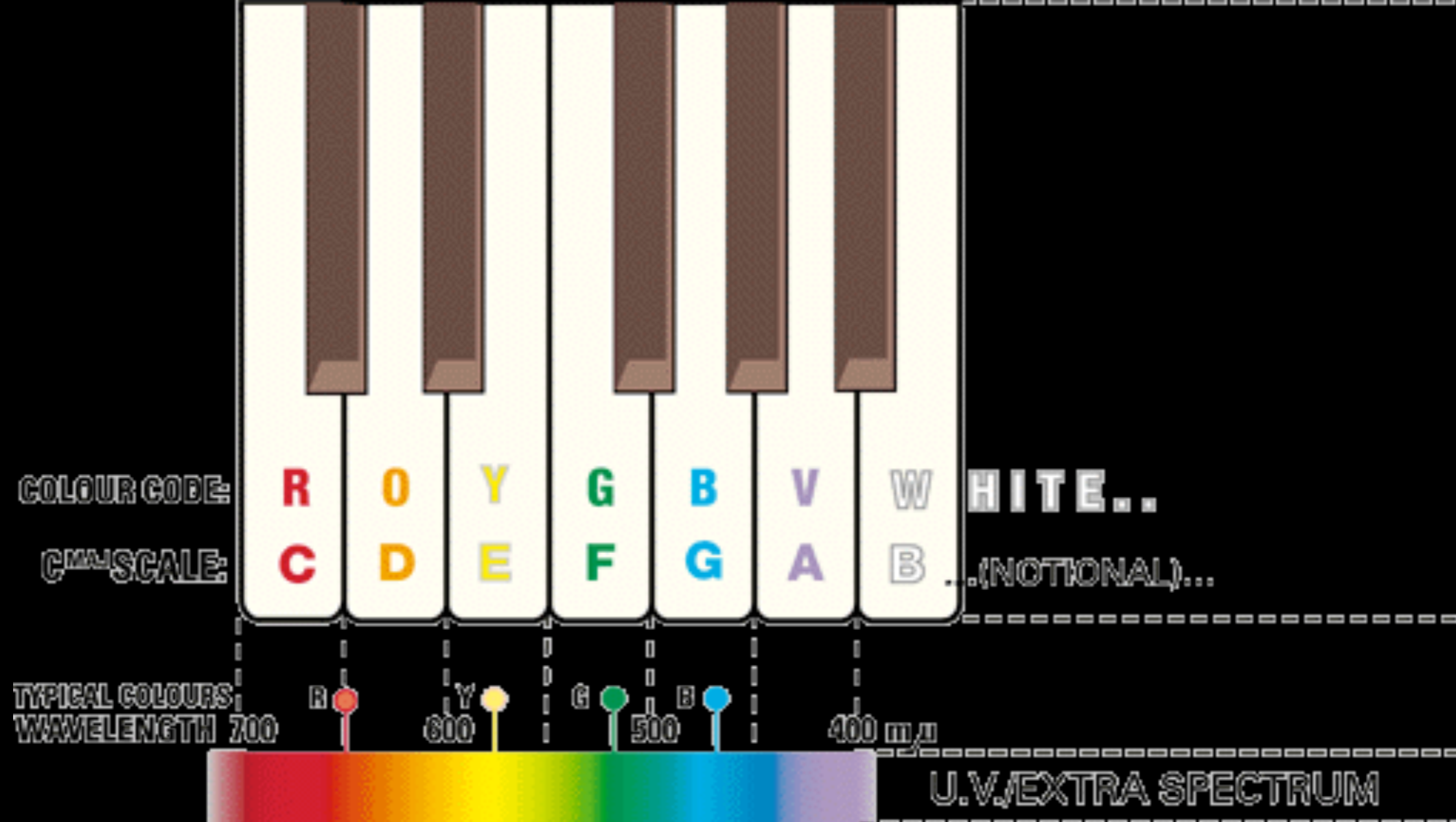


*Pythagoras 6 century BC*



“Music of the Spheres”  
unity of **sound** and **color**





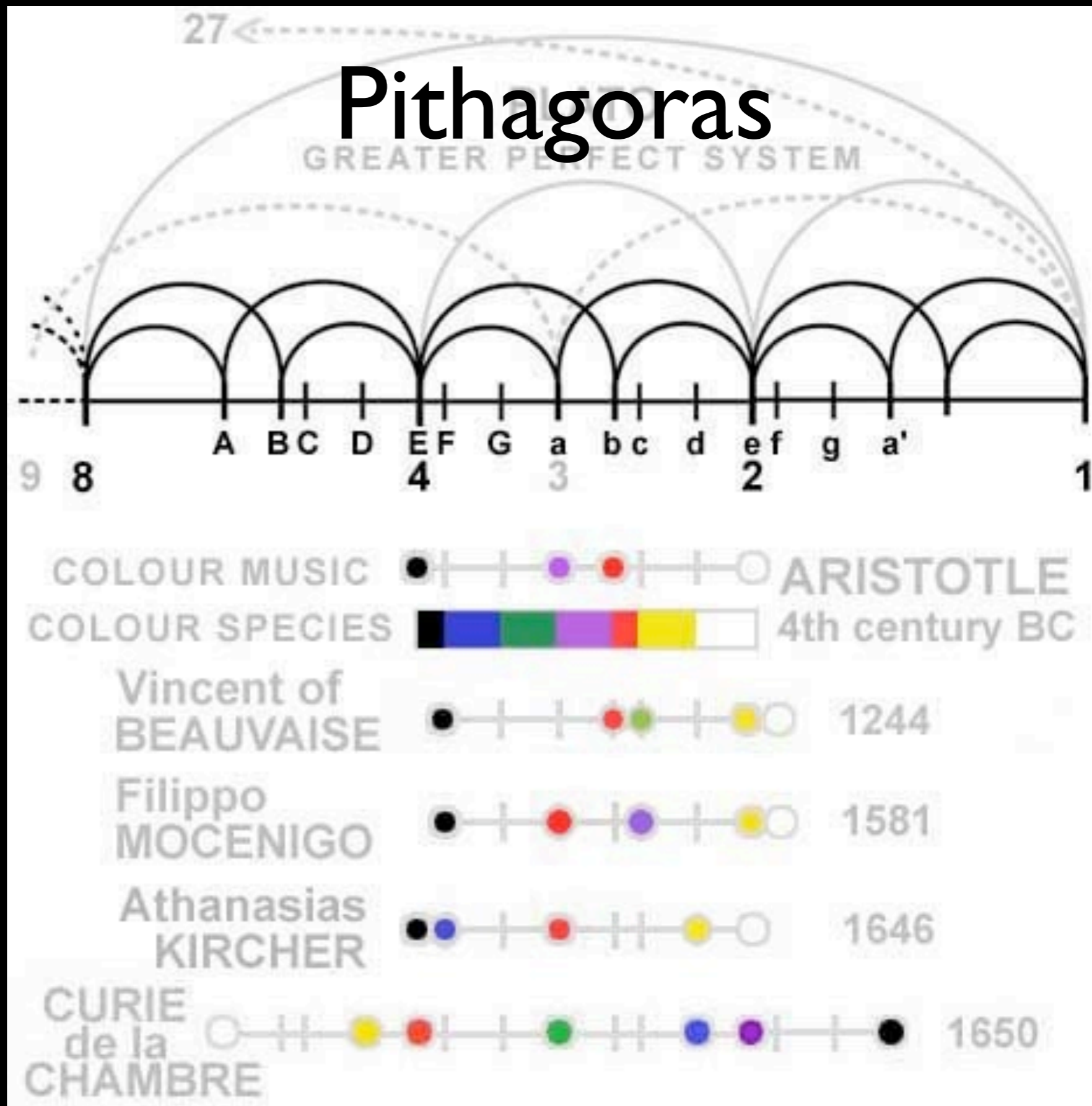
the three fundamental notes

**C**, **E** and **G**

correspond with the three primary colors

**red**, **yellow**, and **blue**

Socrates  
 Plato  
 Aristotle  
 Vitruvius  
 Pliny  
 Alhazen  
 Dante  
 Descartes  
 Leonardo  
 Newton  
 Goethe  
 Einstein

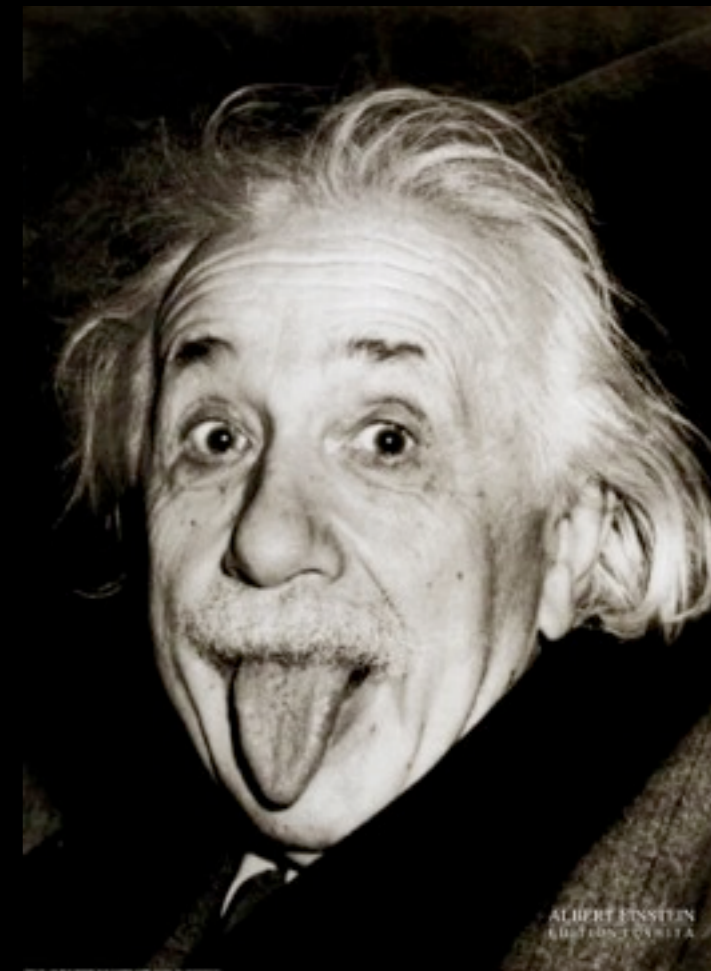
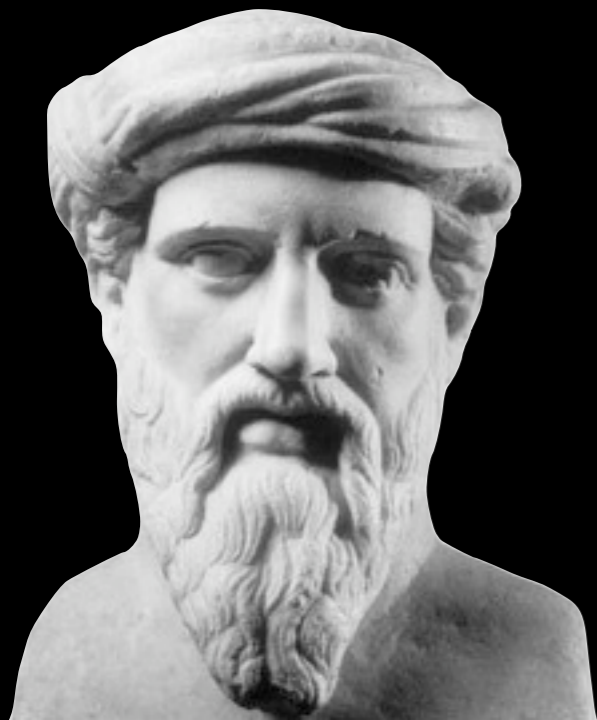




**When the stars of the  
morning sang together...**

Shakespeare – The Merchant of Venice

**Sound of planets & stars**  
– Albert Einstein

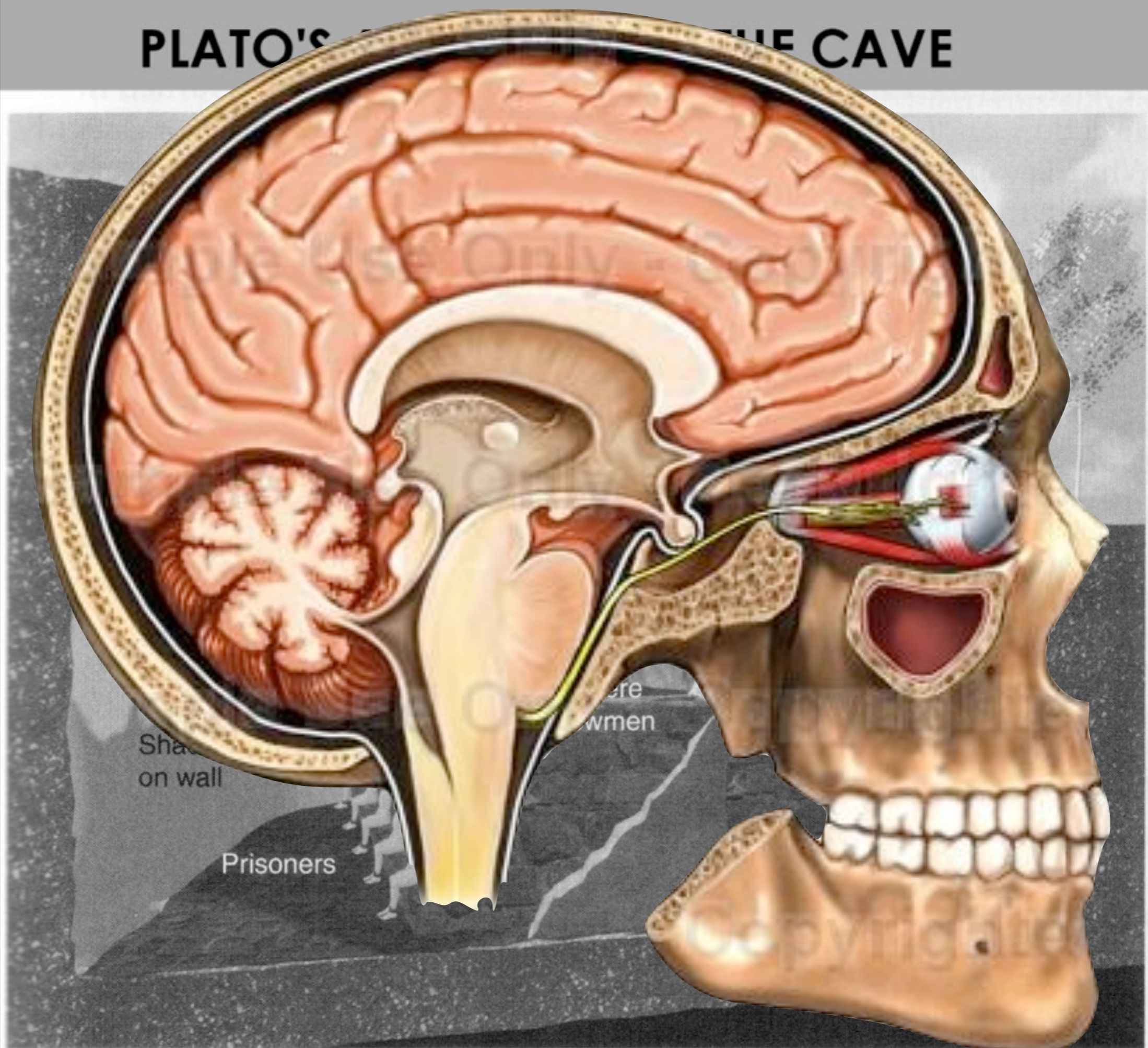


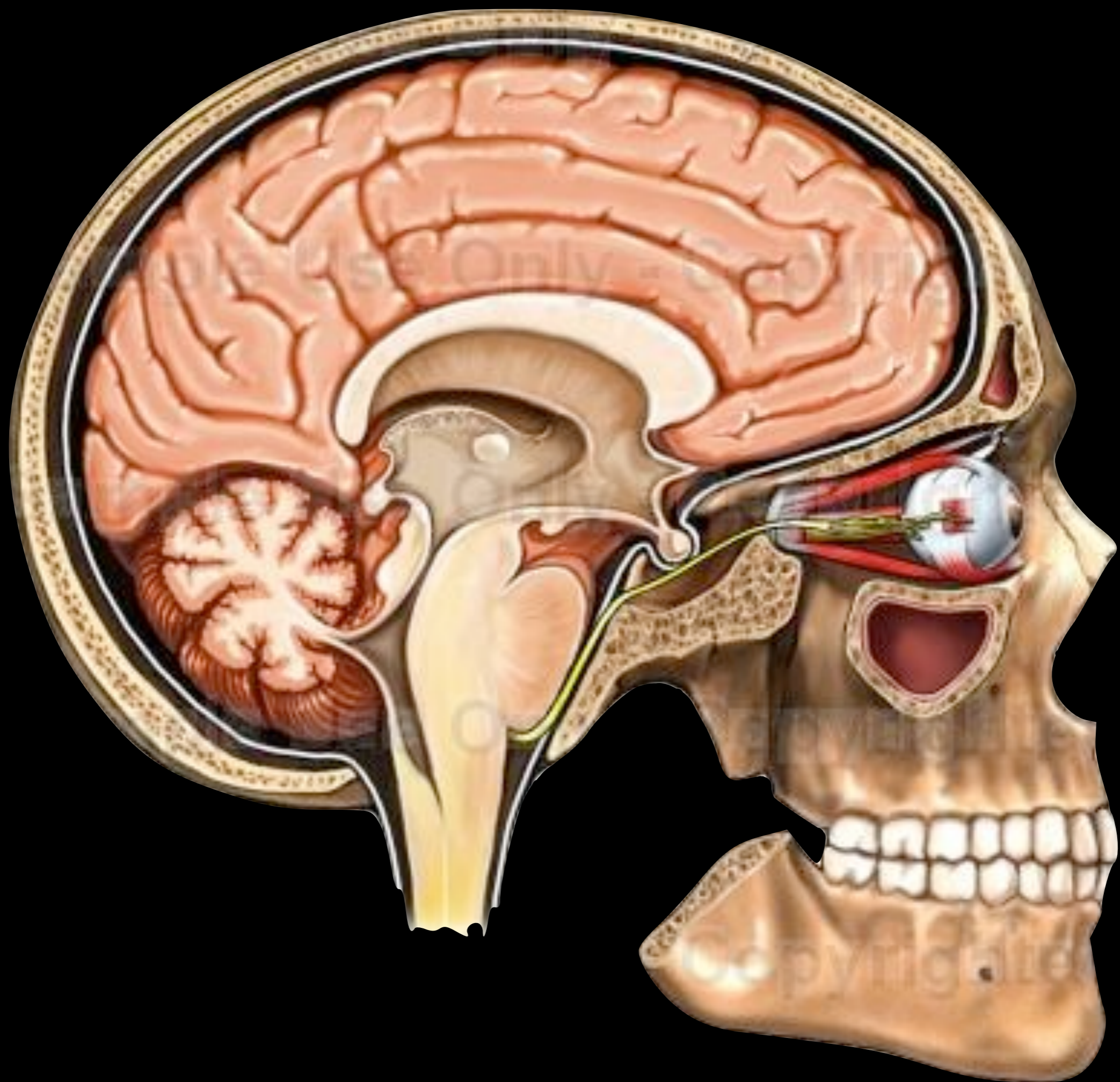
The background features a complex network of glowing, multi-colored lines (red, blue, yellow, white) that resemble particle tracks or energy paths. These lines are set against a dark, almost black background, with some areas showing a faint grid or mesh structure. The overall aesthetic is scientific and futuristic, suggesting energy, data, or quantum mechanics.

# Socrates ENERGIA



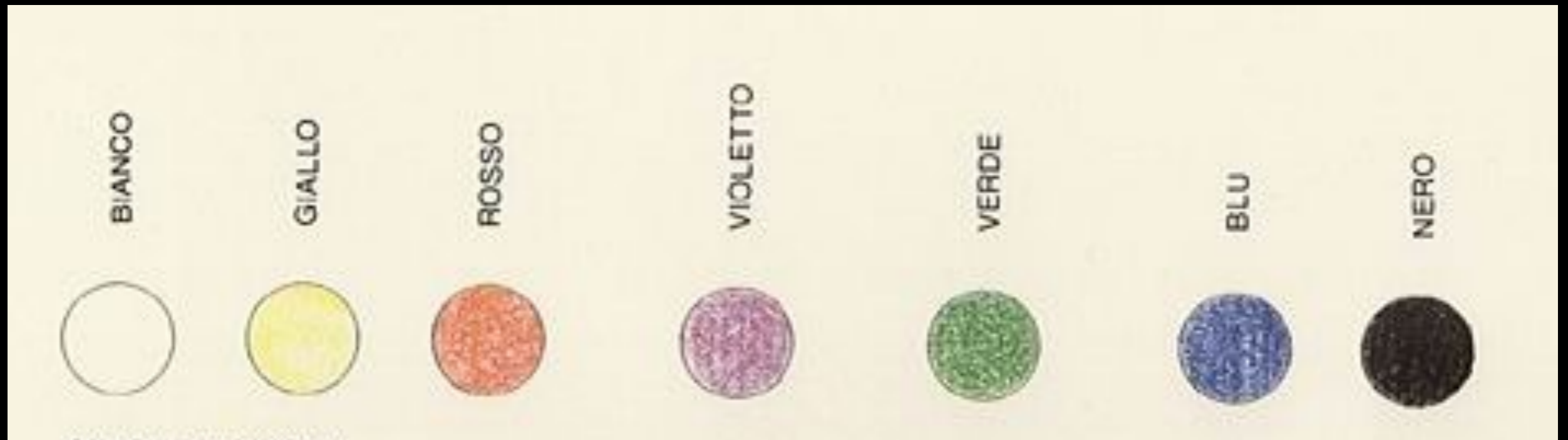
# PLATO'S CAVE





# dark + light

## Aristotle (taste)



7 colors mixed from black & white related to taste

## Leonardo (day)

intriguing history

the art of painting



Pompeii 79 to 1738



Pompeii 79 AD



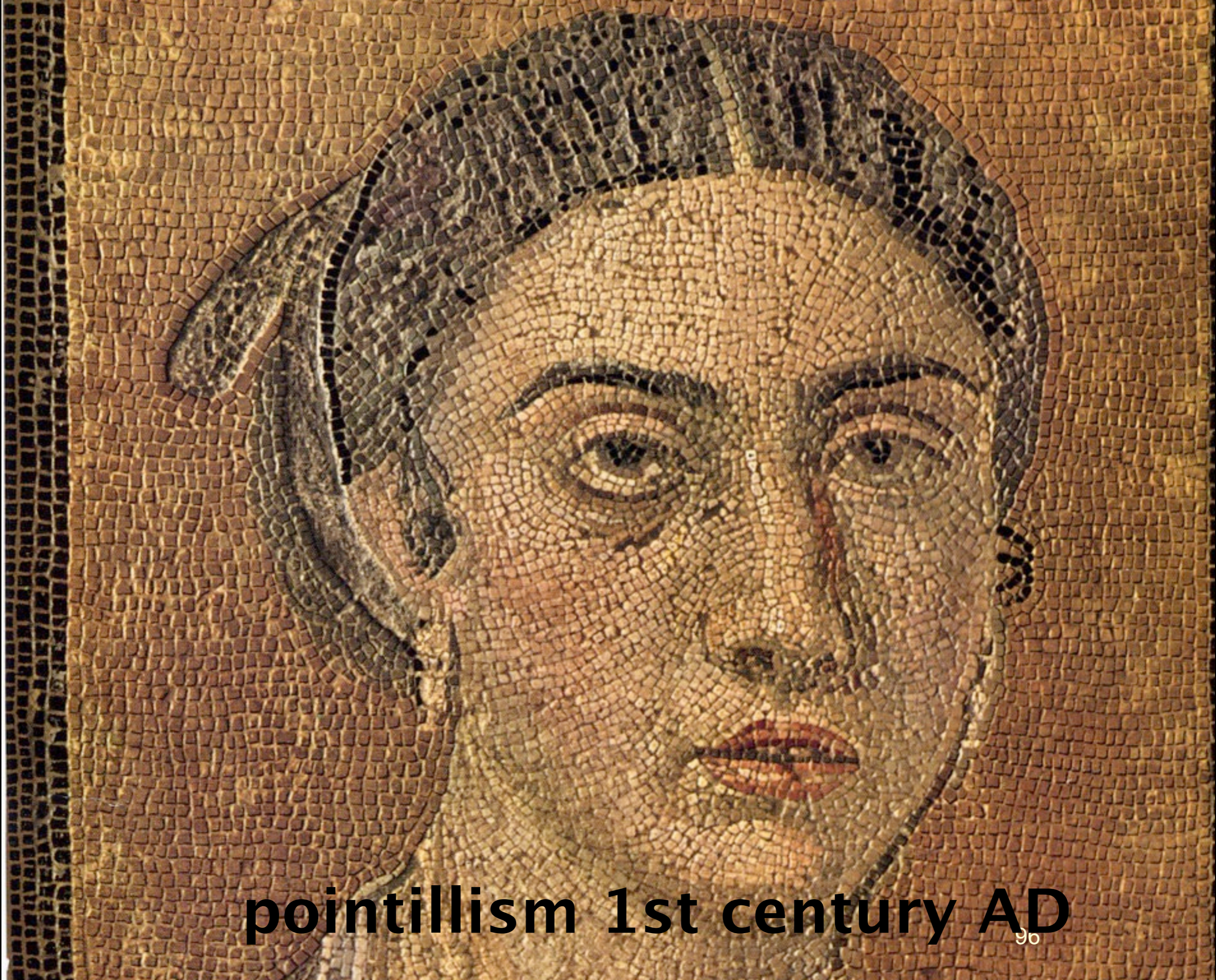
Veronese 1570



Fayum 200



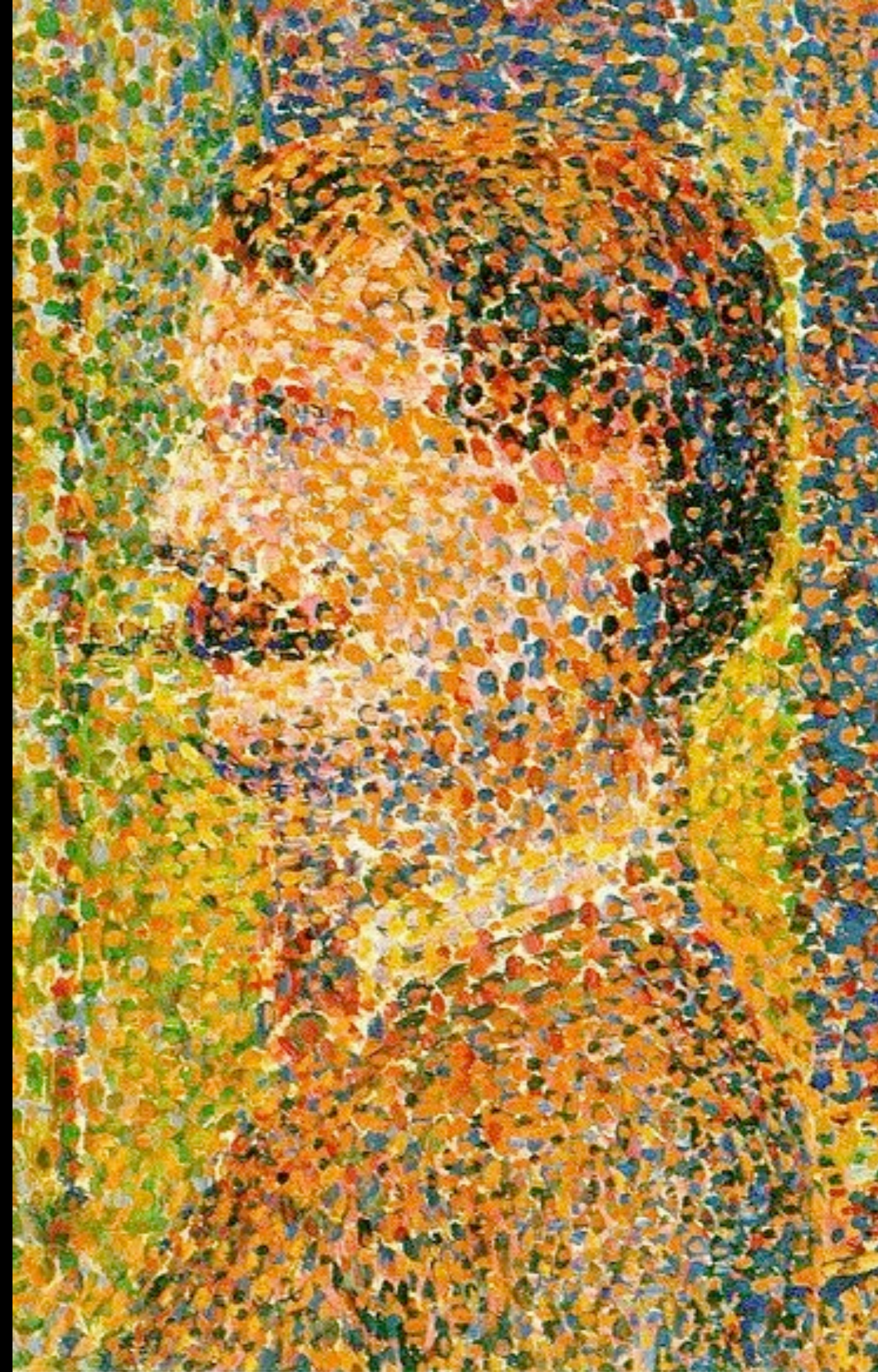
skin tone 95



**pointillism 1st century AD**



Seurat 19 Century



# Byzantine art



Galla Placidia 6 century

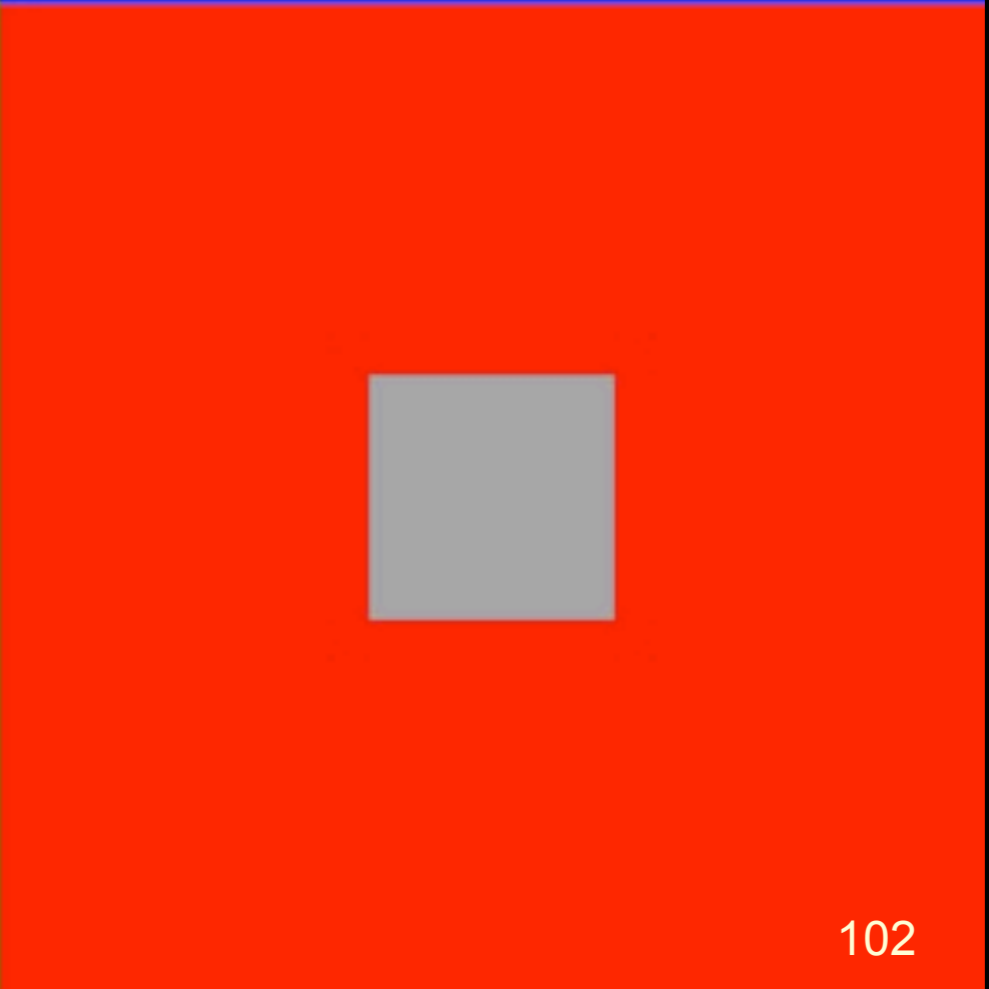
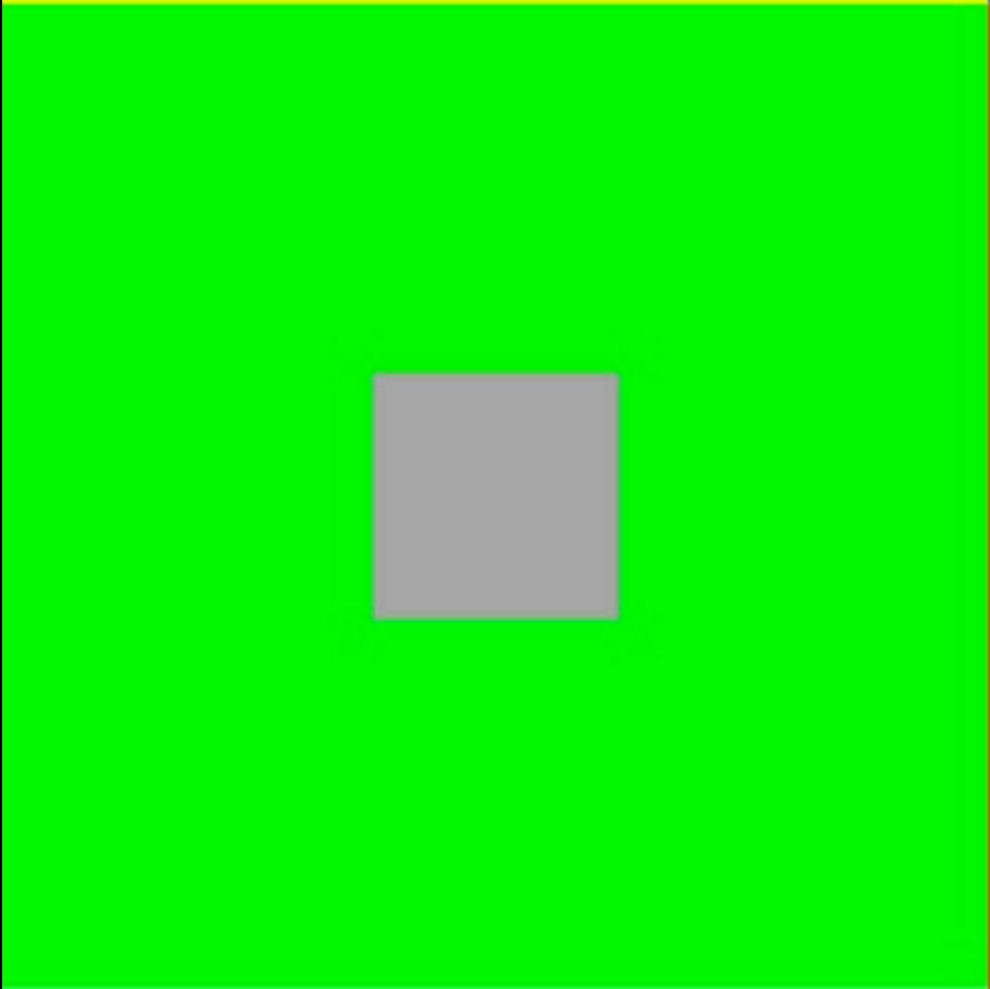
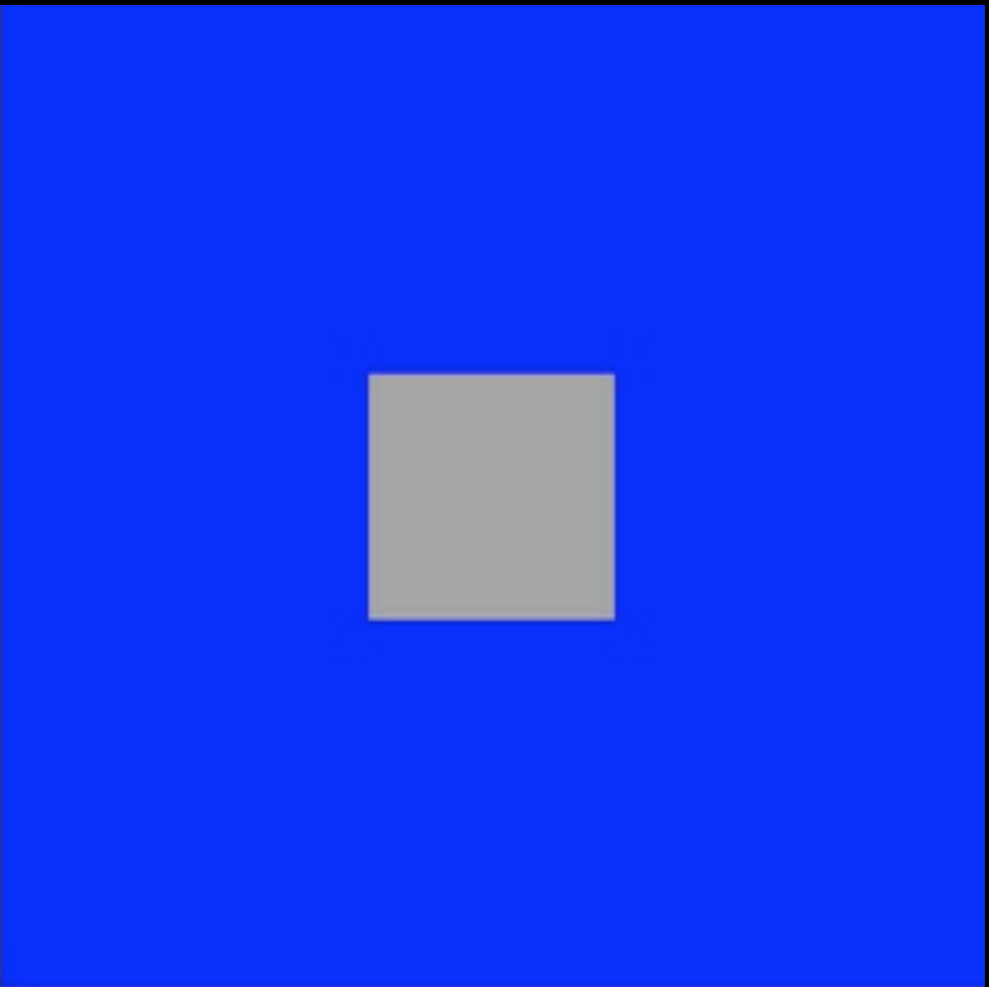
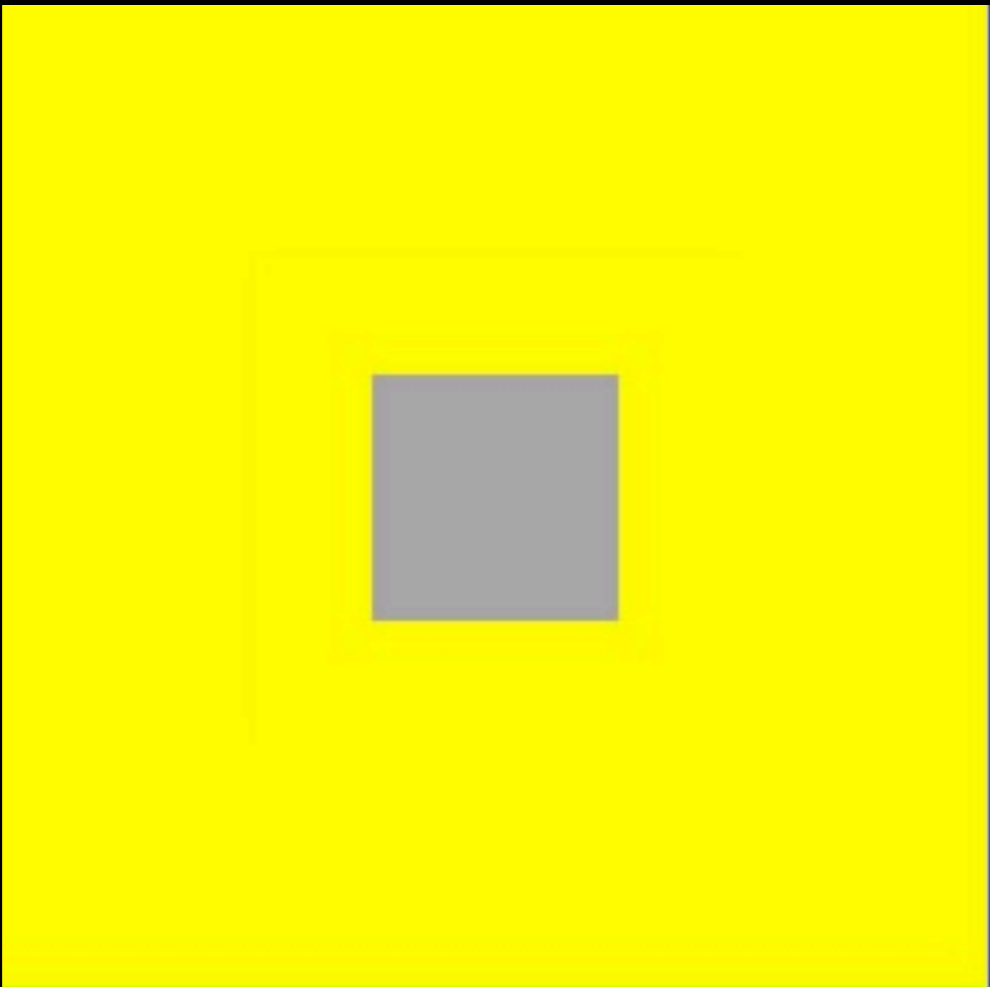


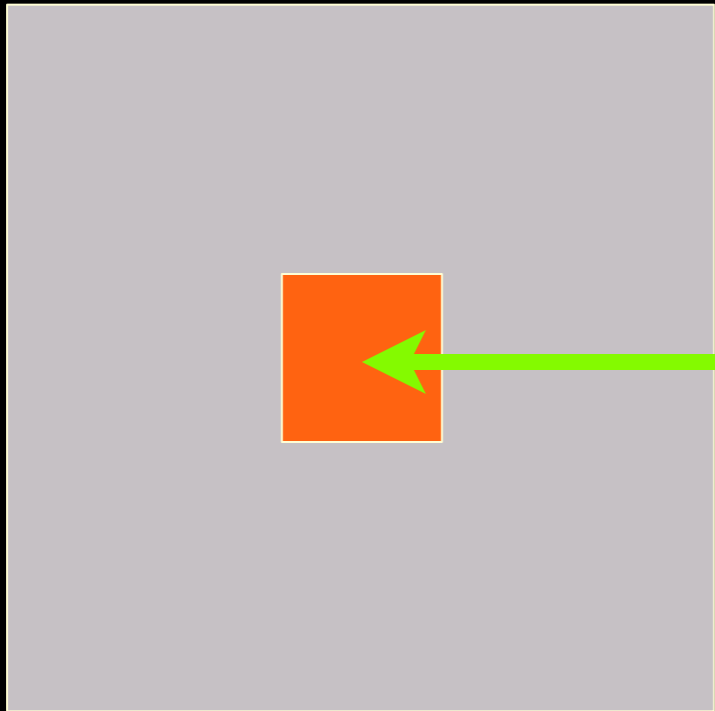




alabaster window

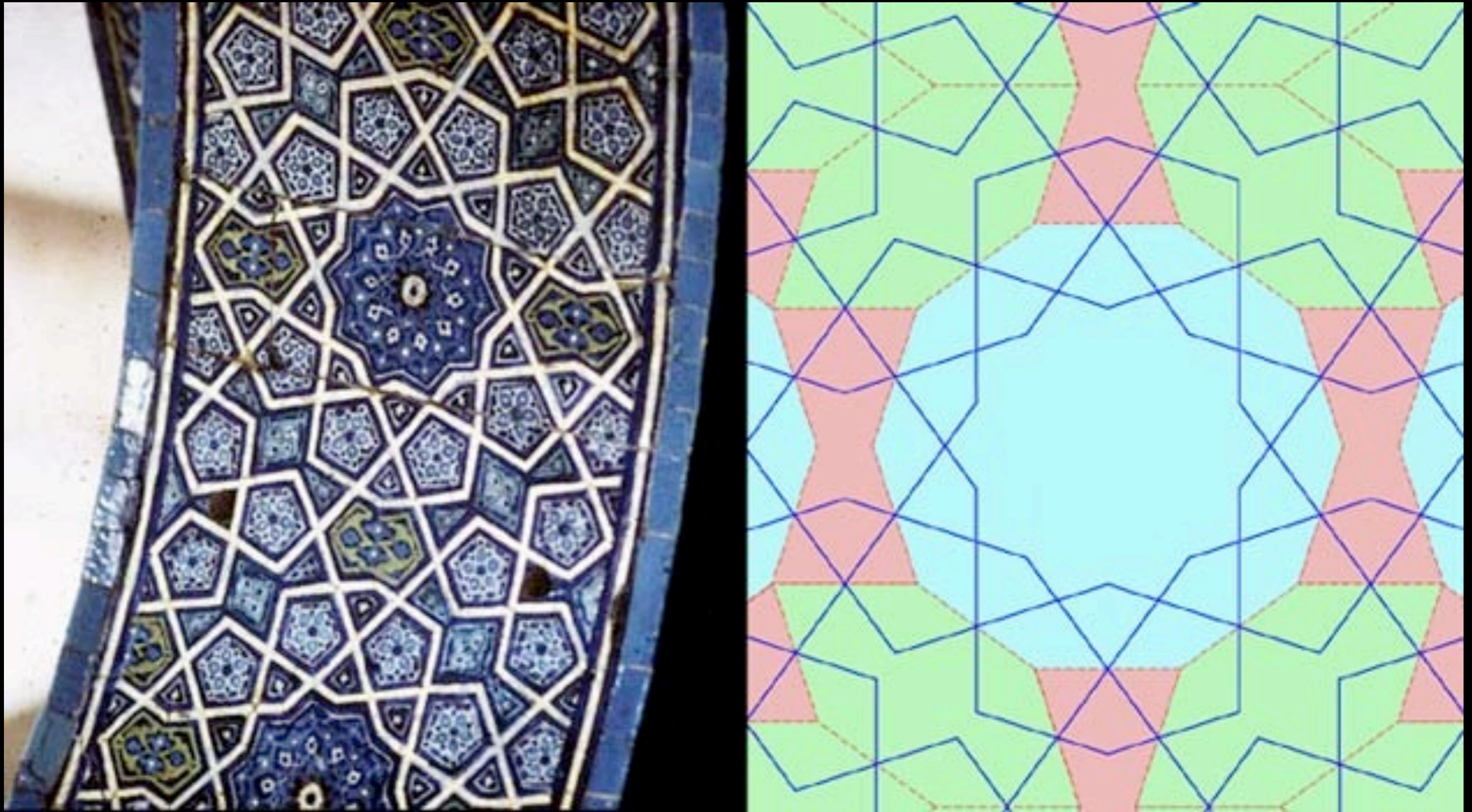
**simultaneous contrast**





Ravenna 6 C.

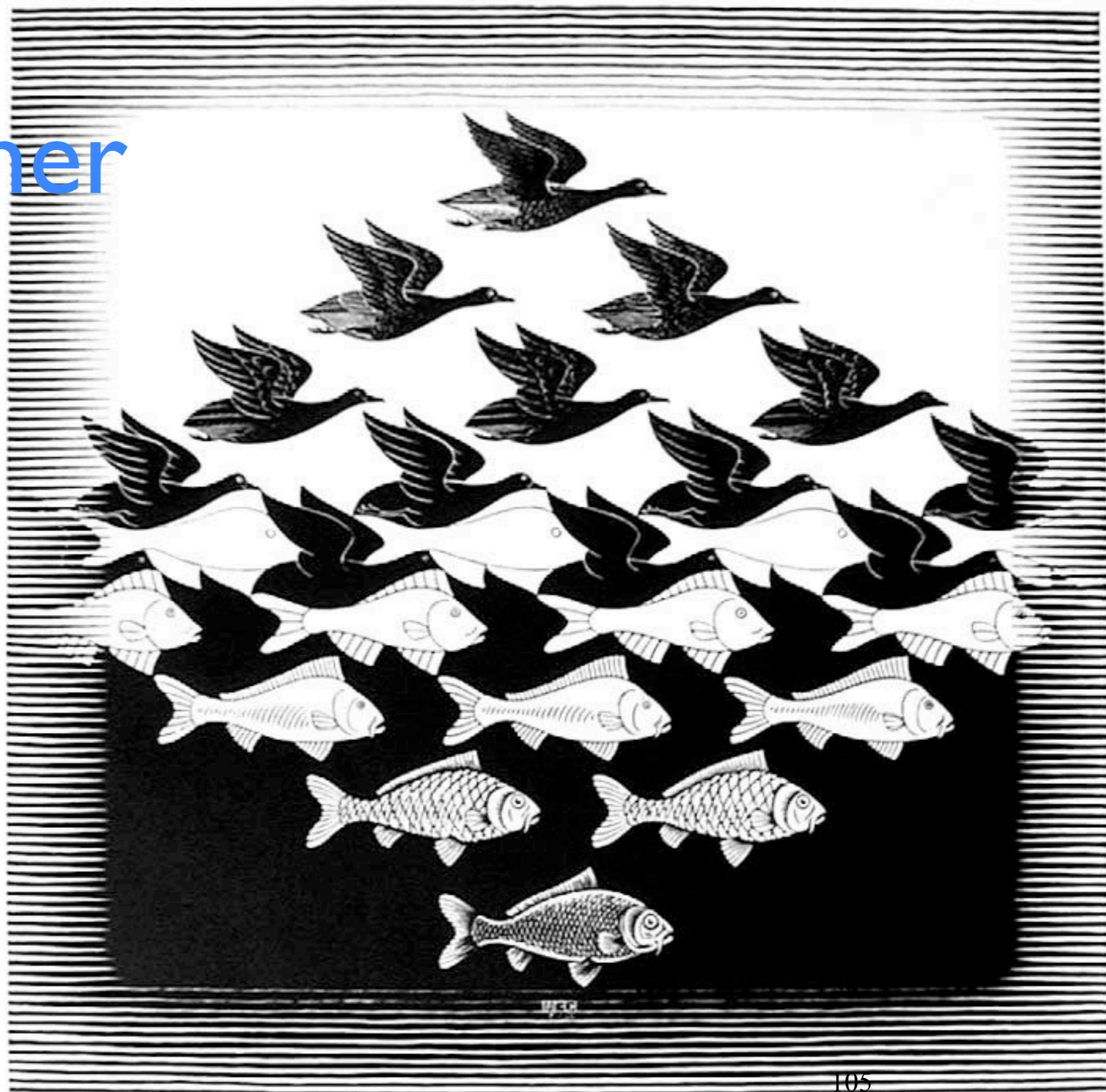
# Islamic art



mathematical poetry



# M.C. Escher





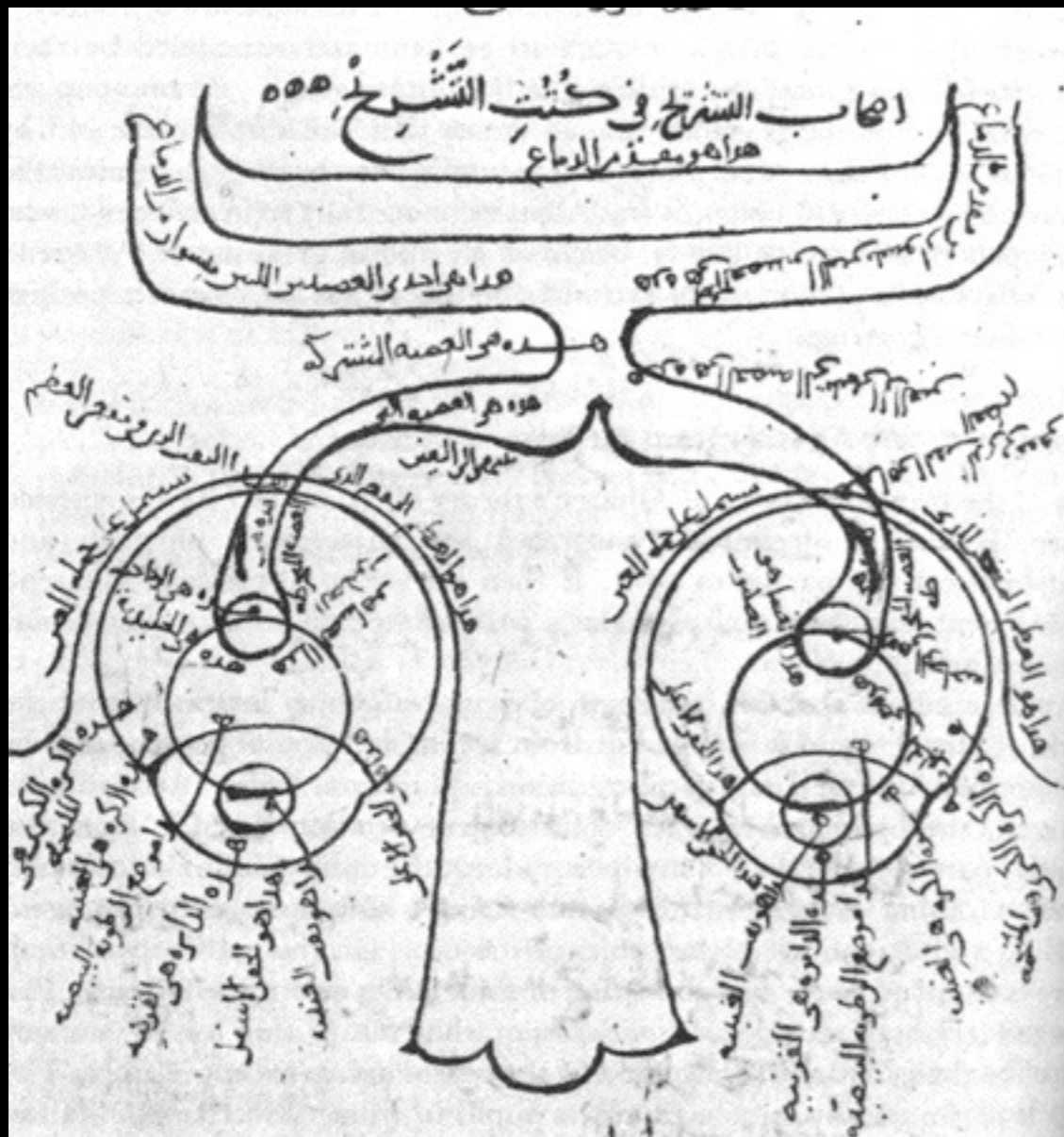
arabesque and symbolic color



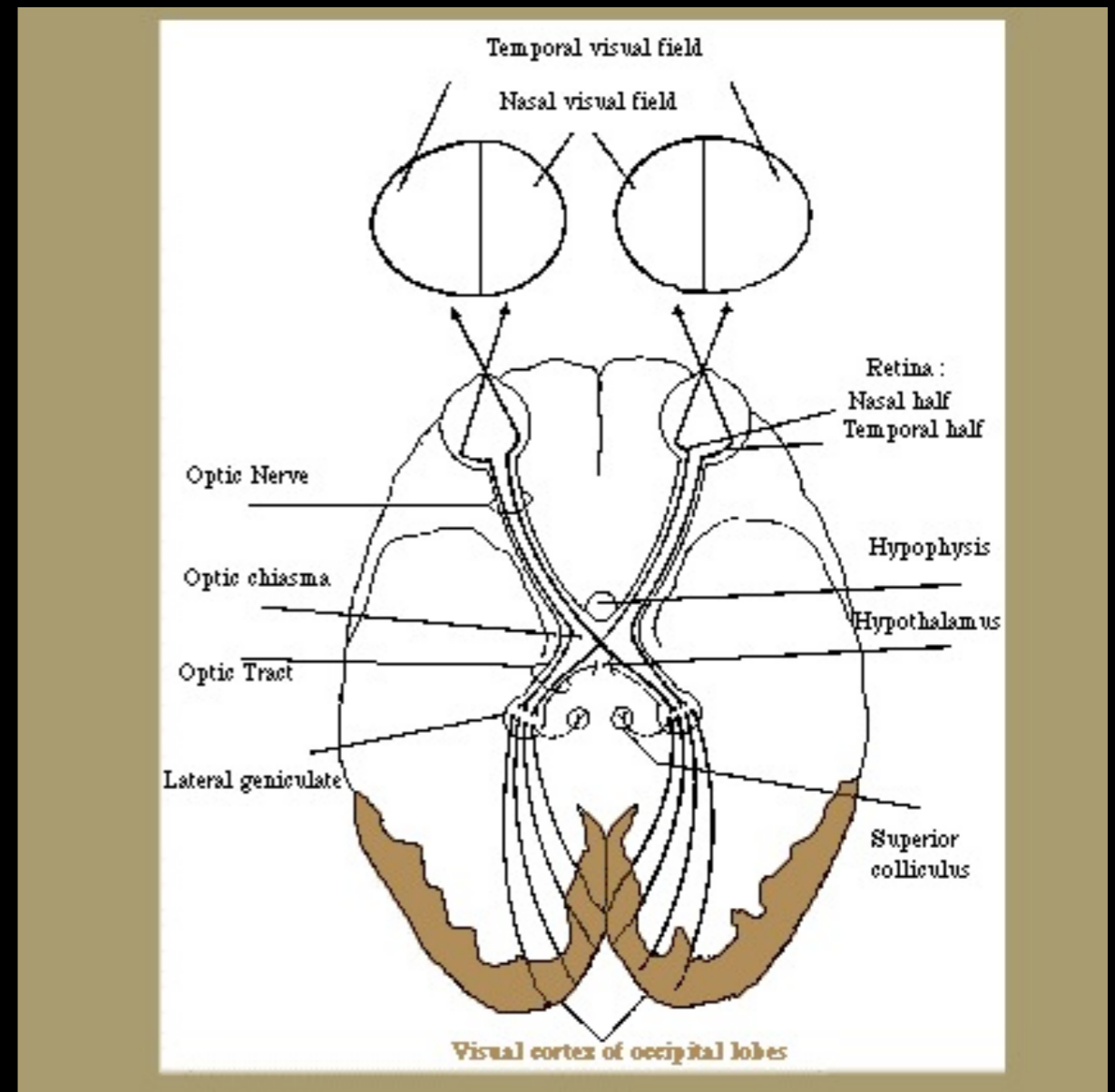
# Alhazen 1000

## “Optics”

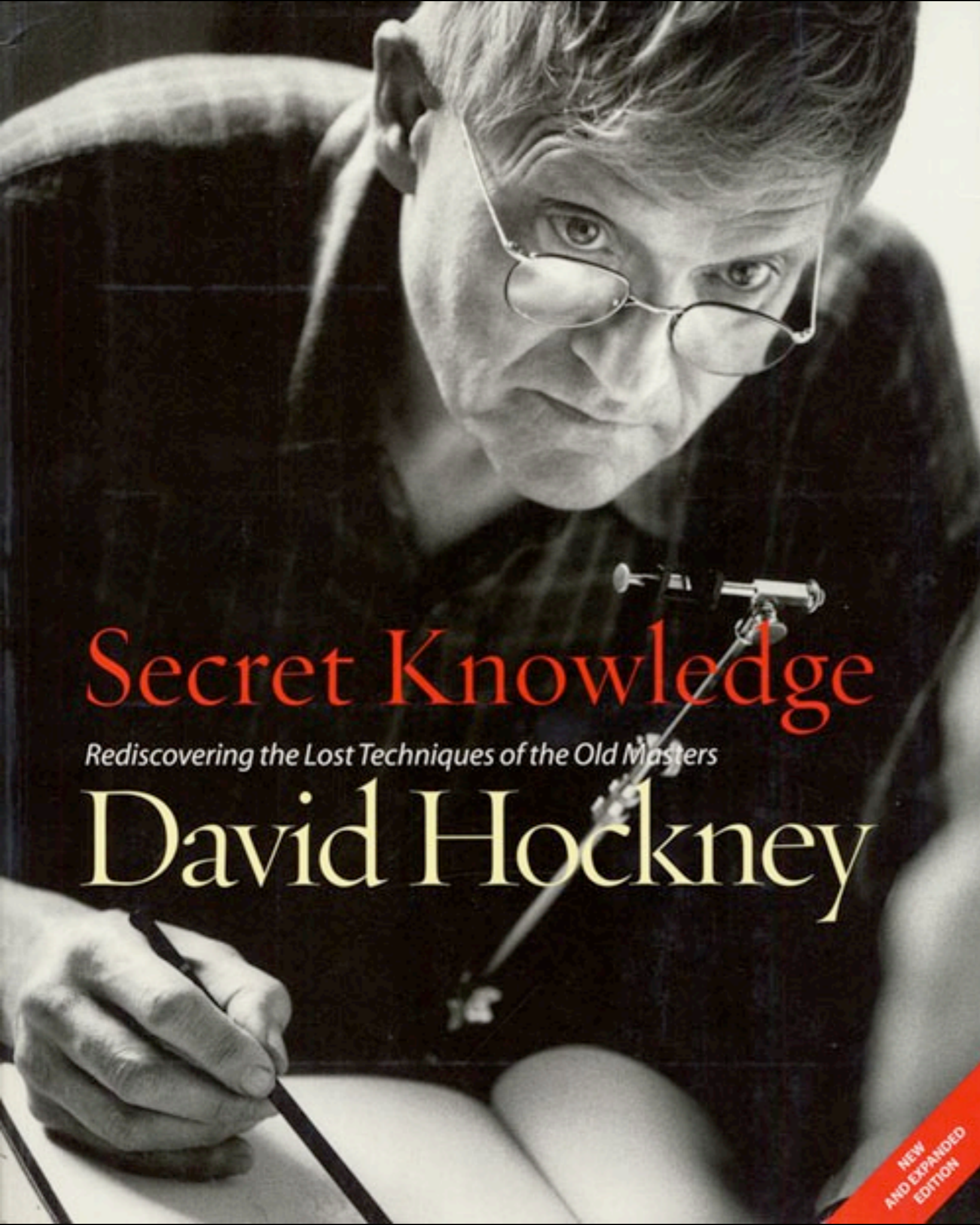
- reflective light
- eye anatomy
- stereoscopic vision



1000



today



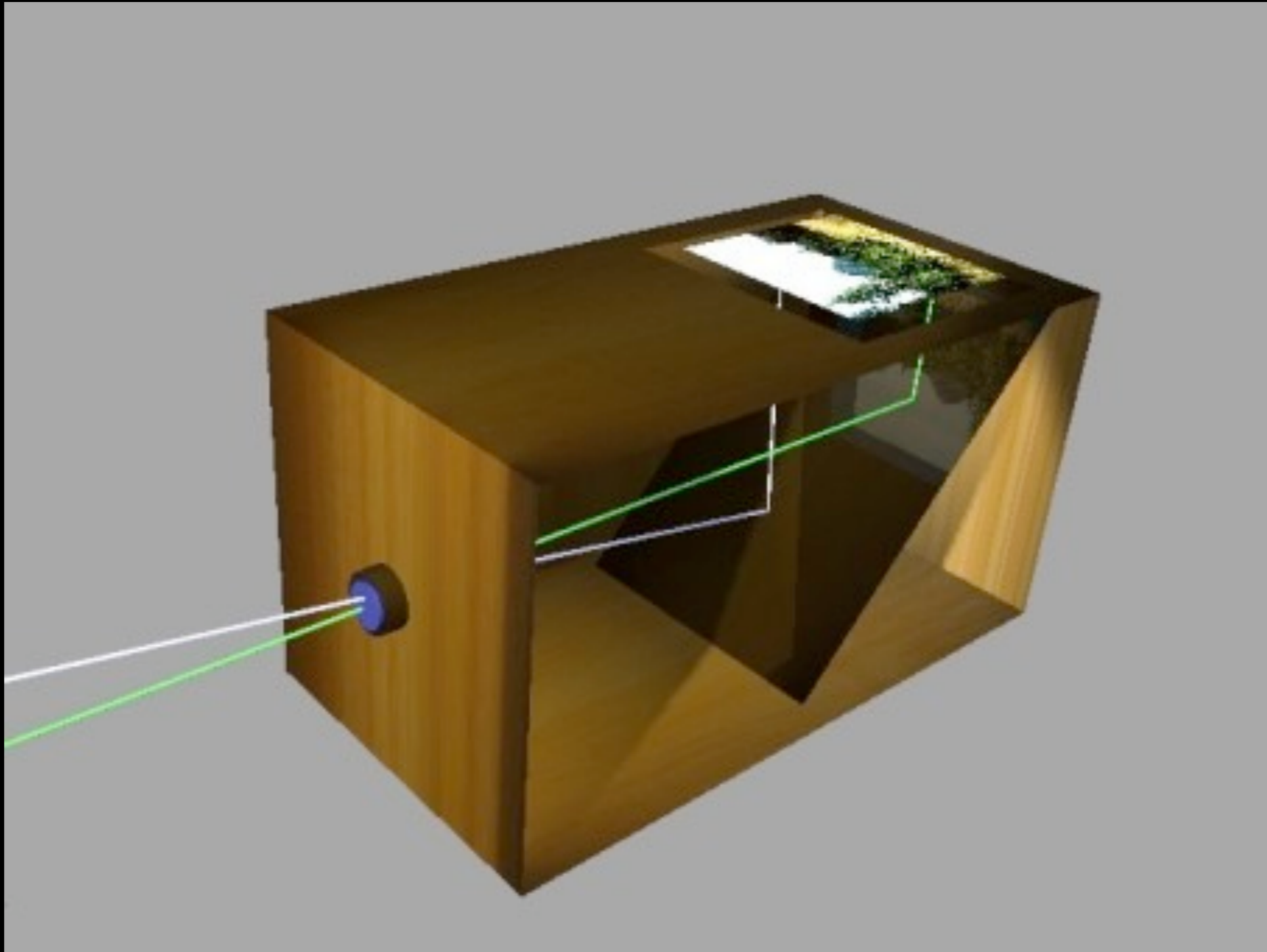
# Secret Knowledge

*Rediscovering the Lost Techniques of the Old Masters*

# David Hockney

NEW  
AND EXPANDED  
EDITION

copy



Alhazen camera obscura 1050 AD

“dark ages”









gold leaf

inner light





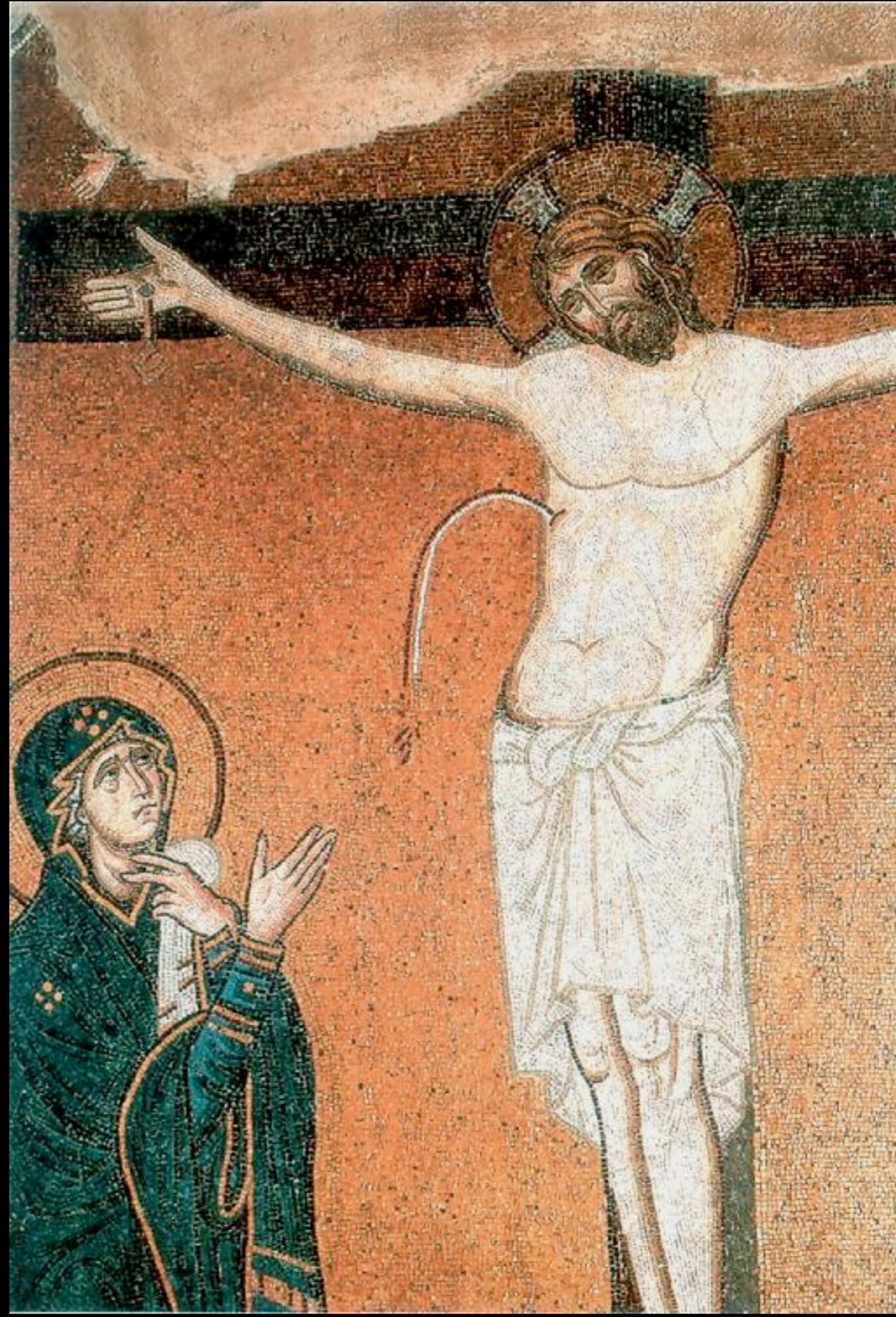
LCD screen



pixels

1085 AD

inverse  
complimentary  
contrast





technicolor



# egg tempera



luminosity



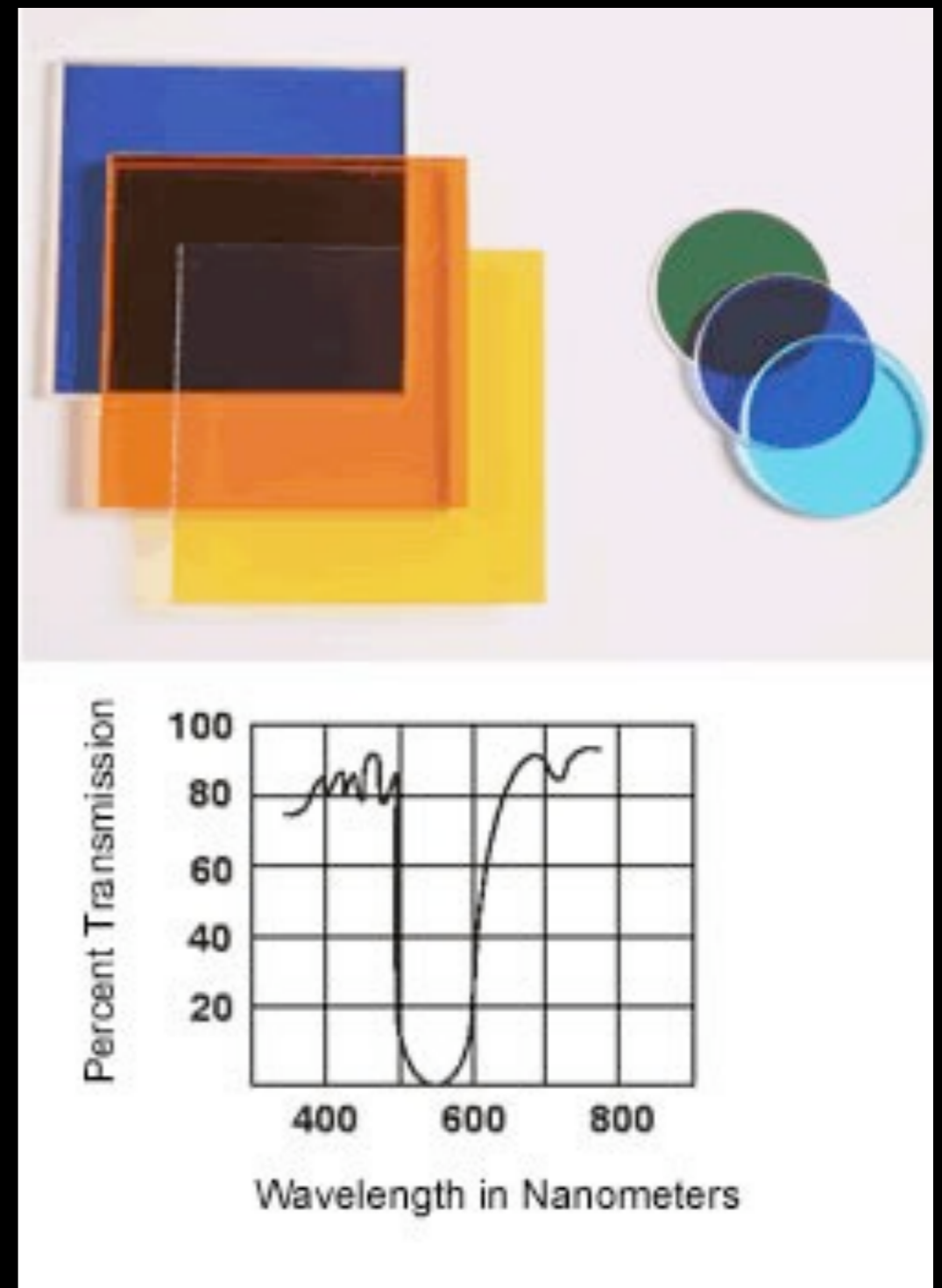
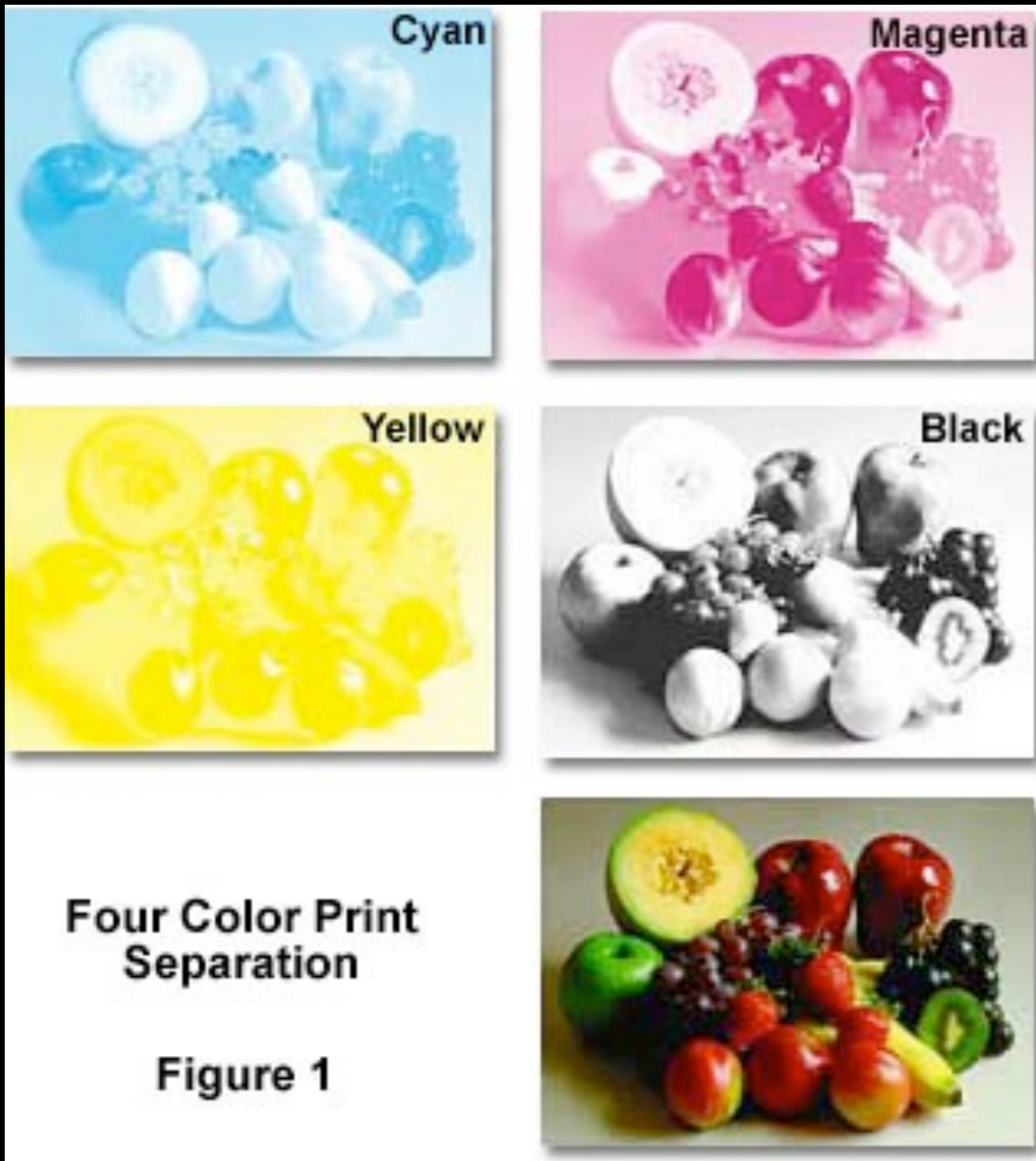
secret of medieval painters:  
**never mix the pigments**



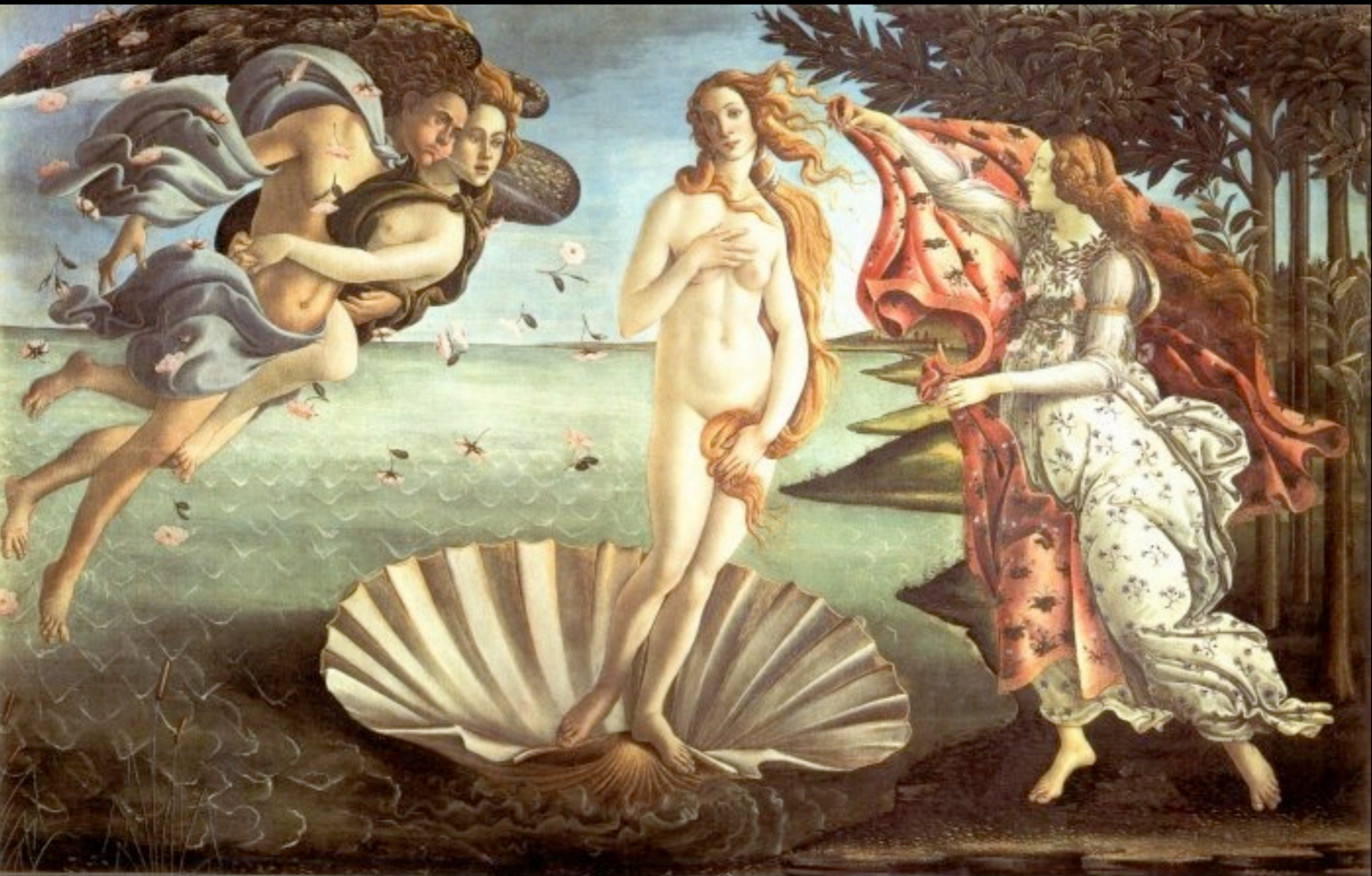
*blue glaze over red  
(wet-on-dry)*



optical mixing



# PRINTING color separation



**Renaissance art**

**Botticelli**

Pre-restoration



Post restoration

Michelangelo





# Titian



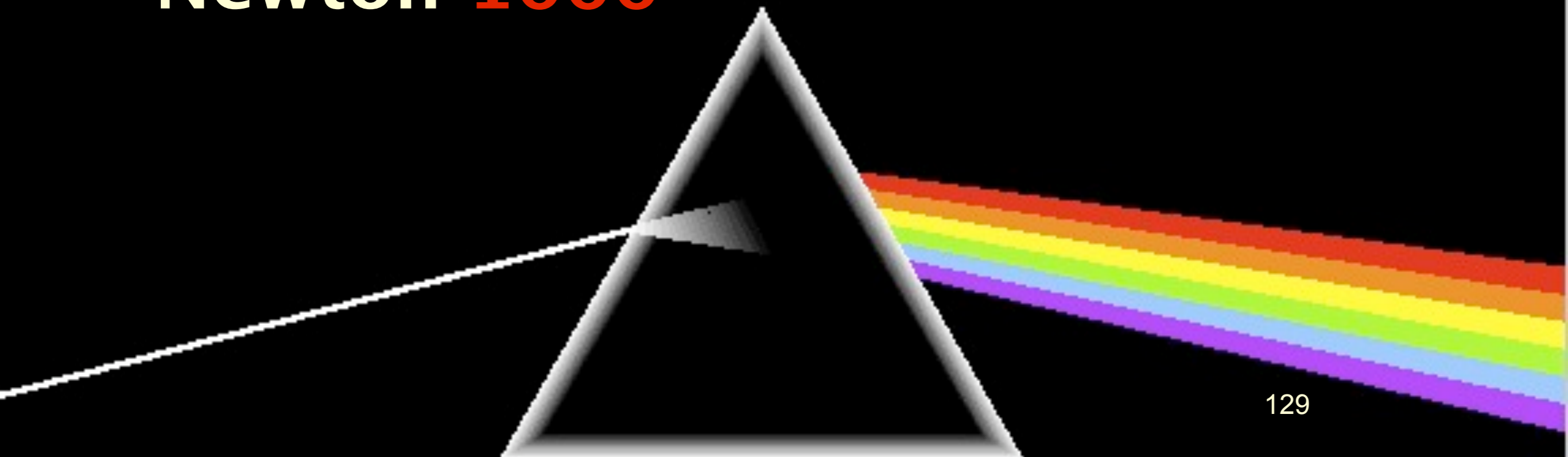
**Venetian glass  
mixed with paint**





# prism

- Theophilus 400 (rainbow)
- Albertus Magnus 1250 (iris)
- Theodoric of Freisberg 1304 (refraction diagram)
- Newton 1666



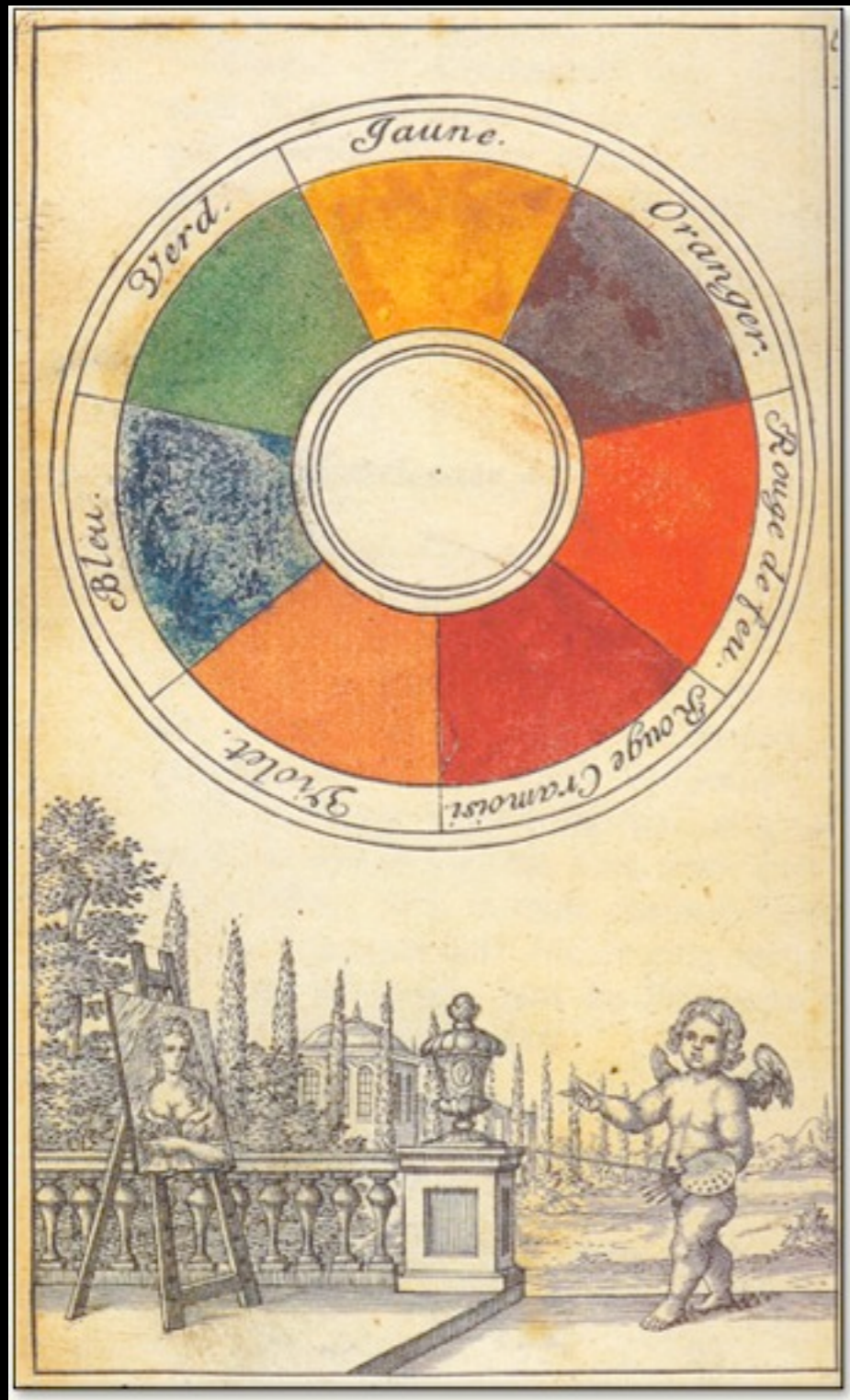
# Goethe by Warhol



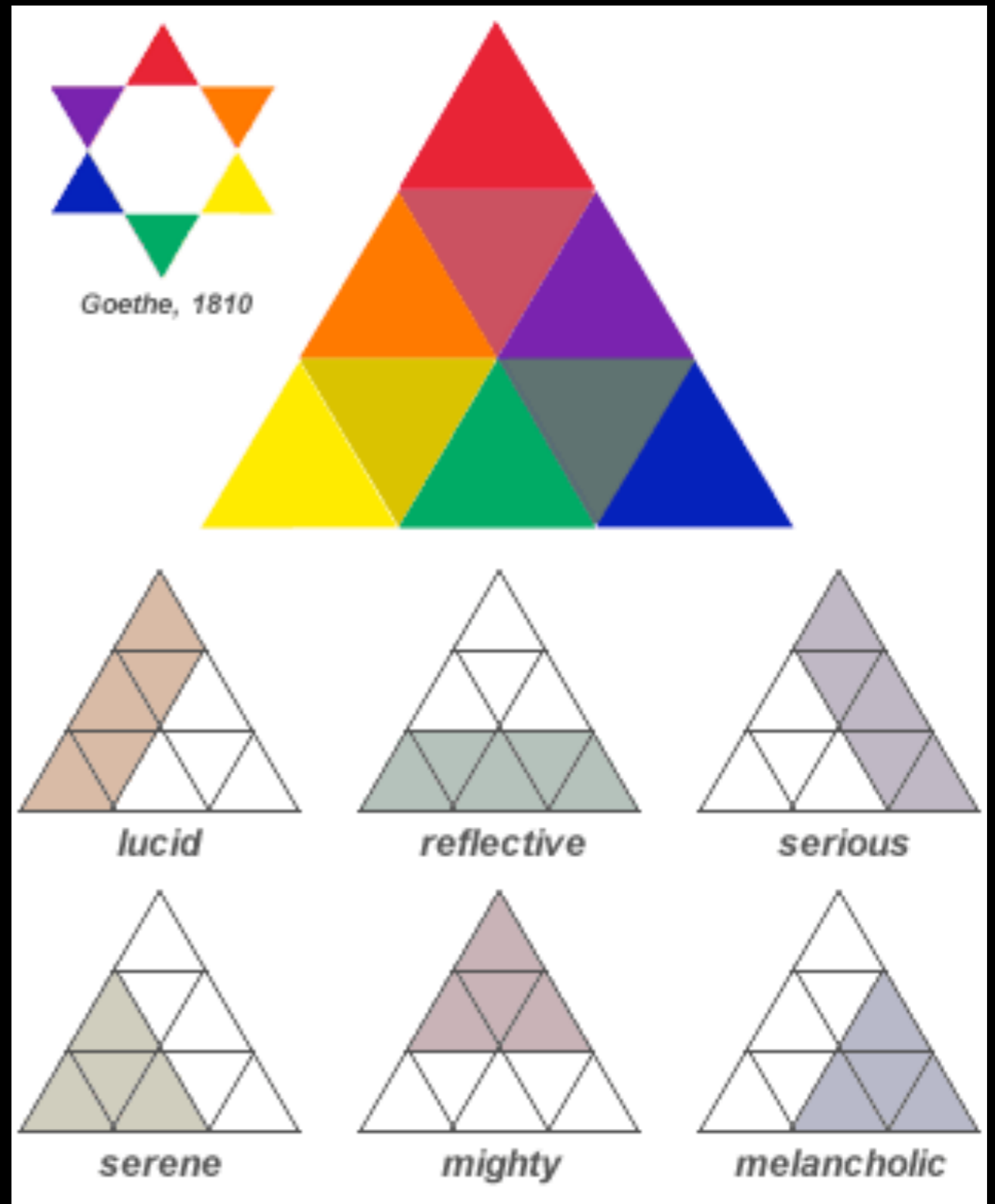
Newton 1666

VS

Goethe 1810



printing



art

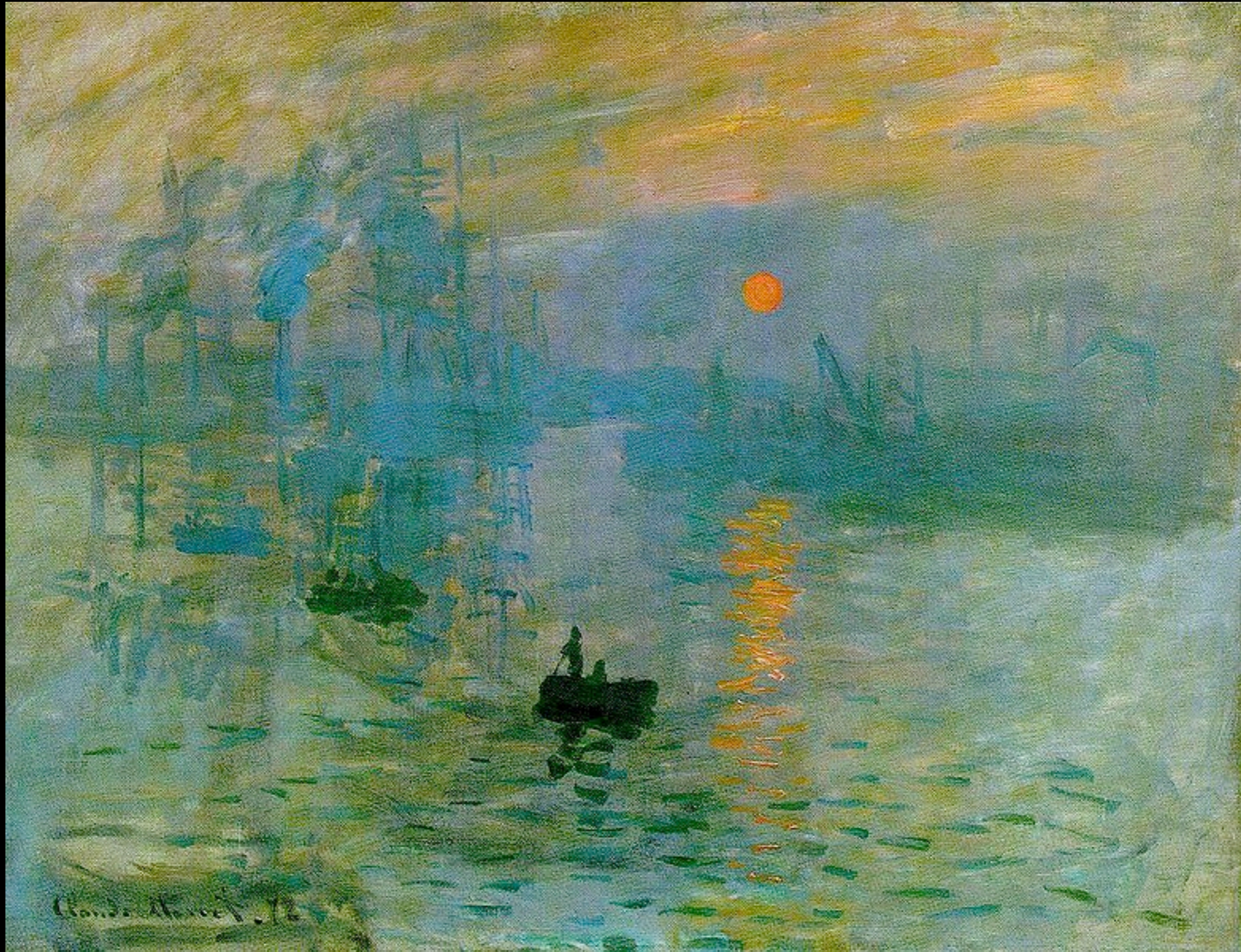


PAINTING  
after Goethe

# W. Turner



# Claude Monet



# Signac

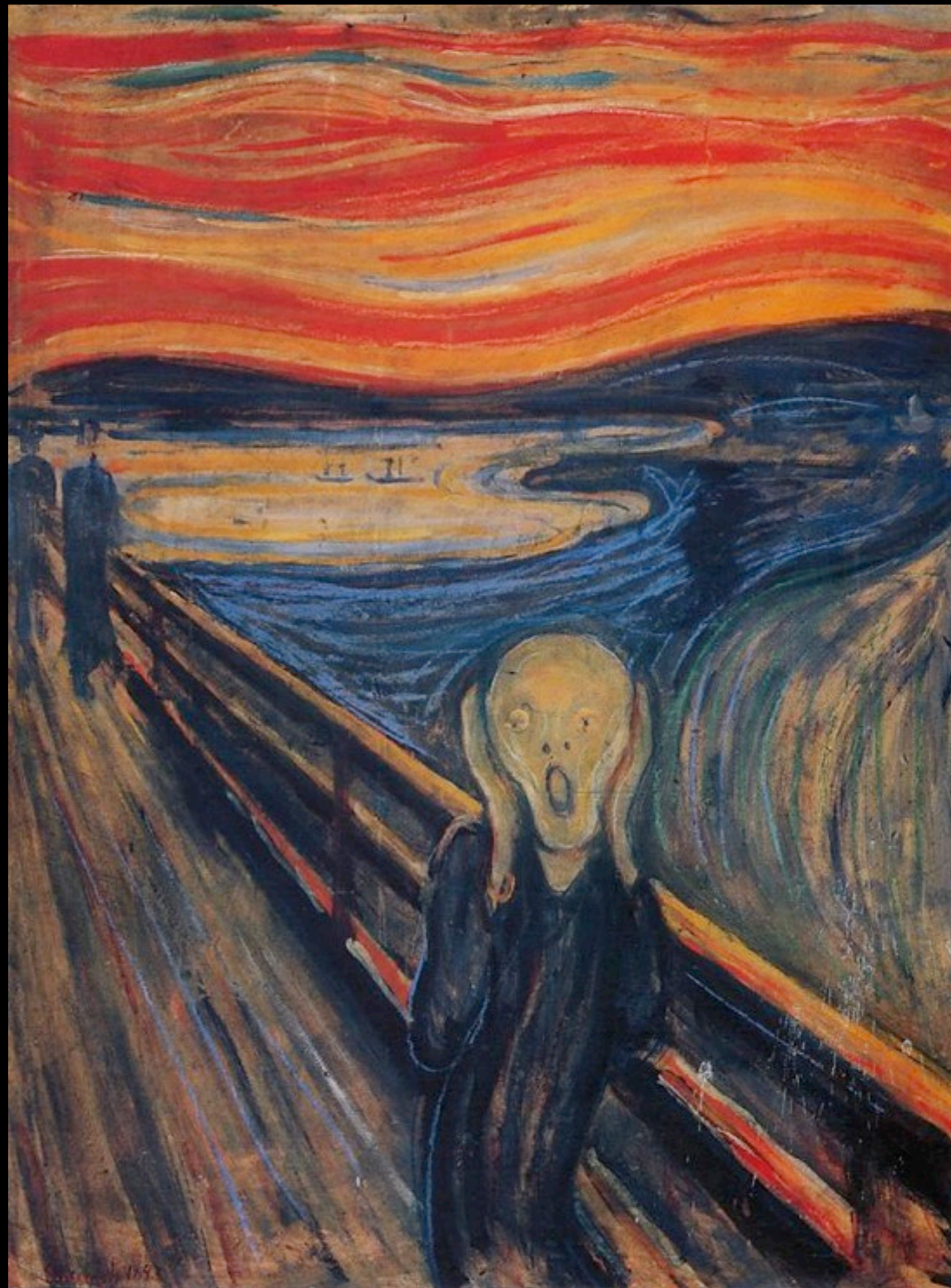


# F. Marc "les fauves"





# E. Munch



Devil's workshop

photo



Nicéphore Niépce Oldest Photograph 1825



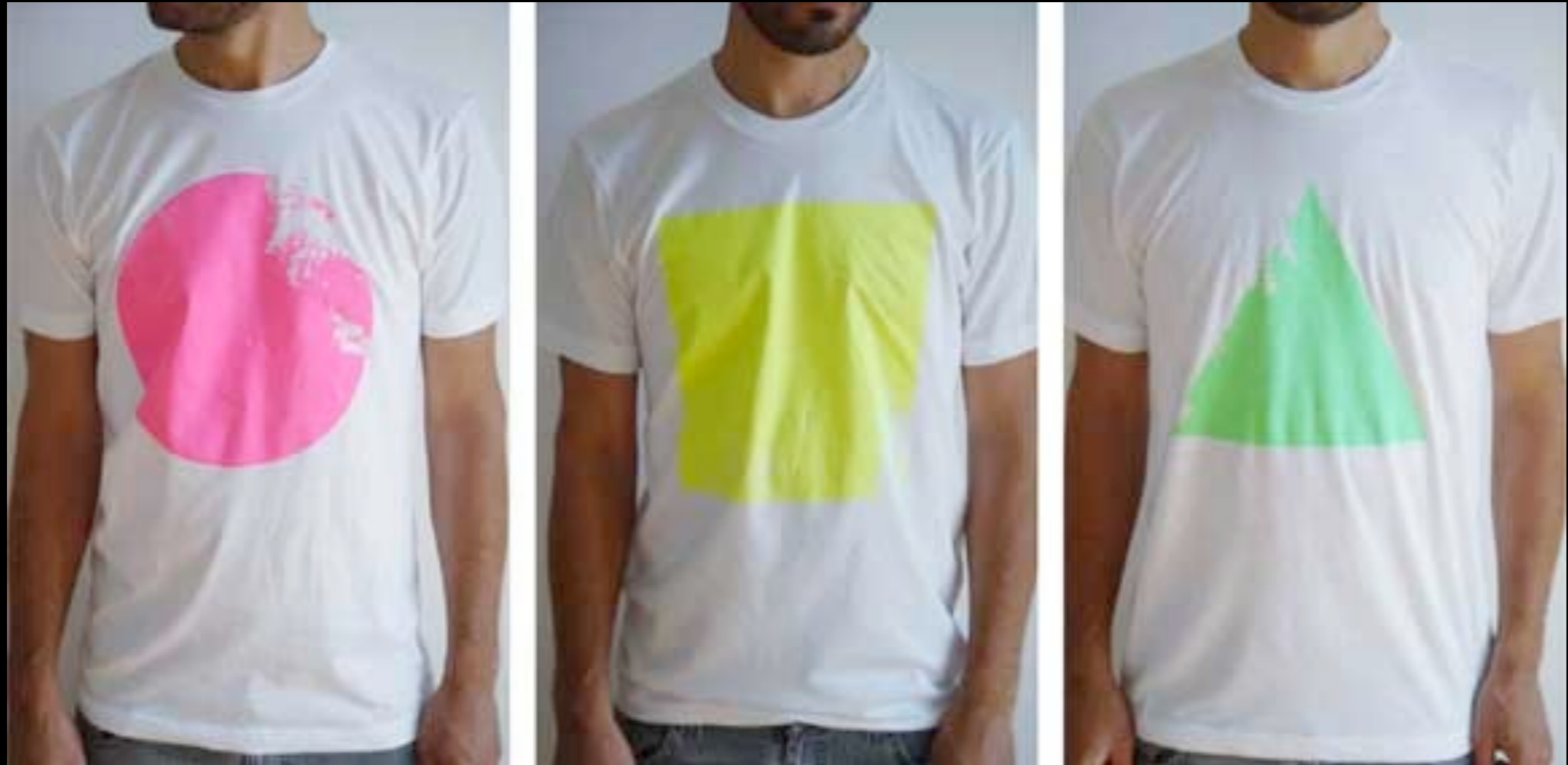
color photography invented **1877**

- William Eggleston

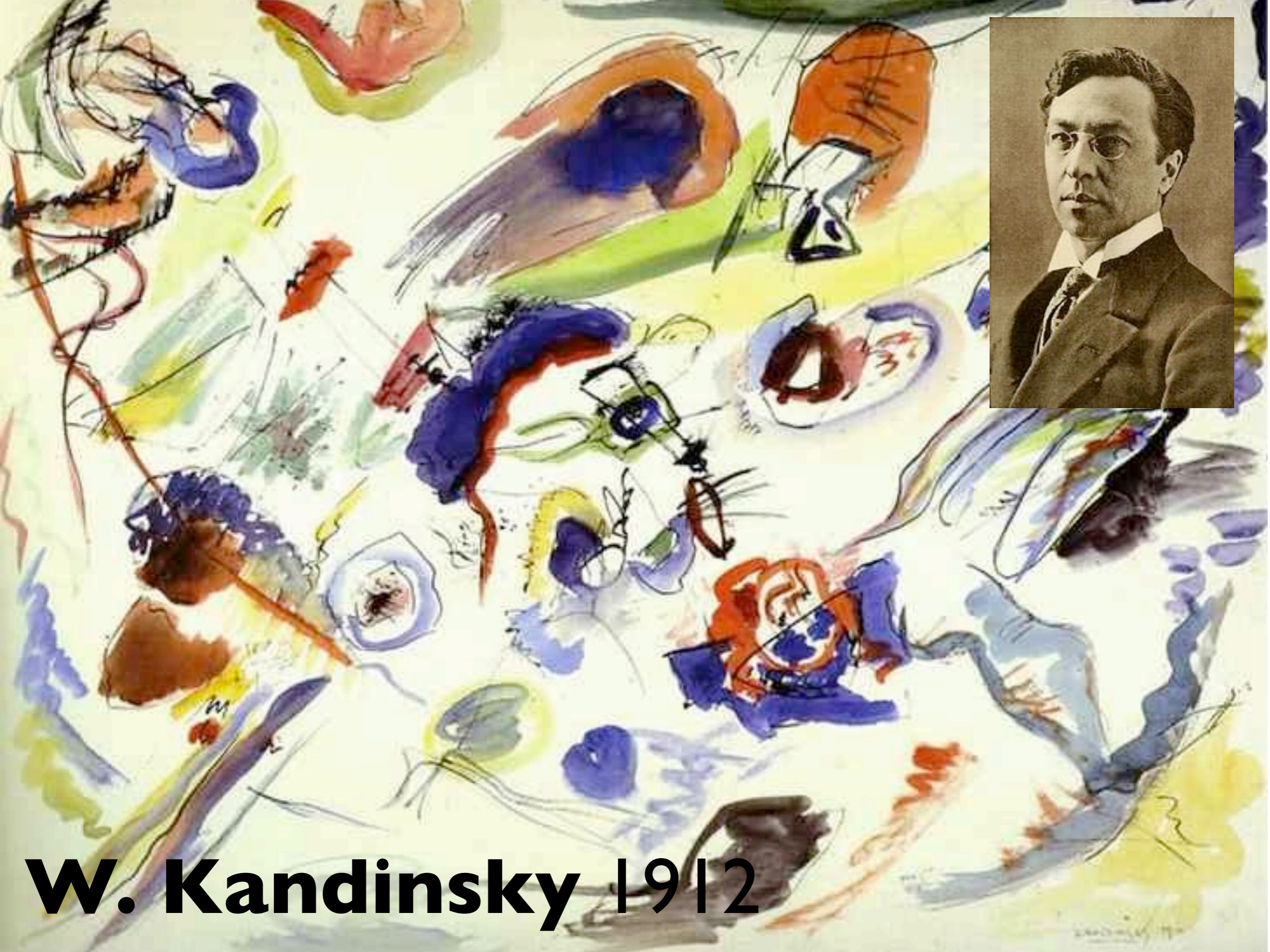


**first exhibition** of **color** photography  
Szarkowky at the MOMA museum **1976**

# Modern color theories



**Bauhaus** : spiritual teachers



**W. Kandinsky 1912**



**synesthesia**

# Bauhaus



J. Itten

The contrast of saturation



The contrast of hue



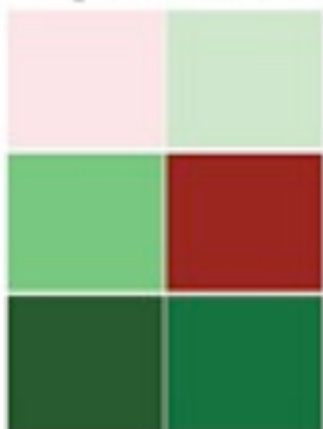
The contrast of extension



The contrast of warm and cool



The contrast of Light and dark



The contrast of complements

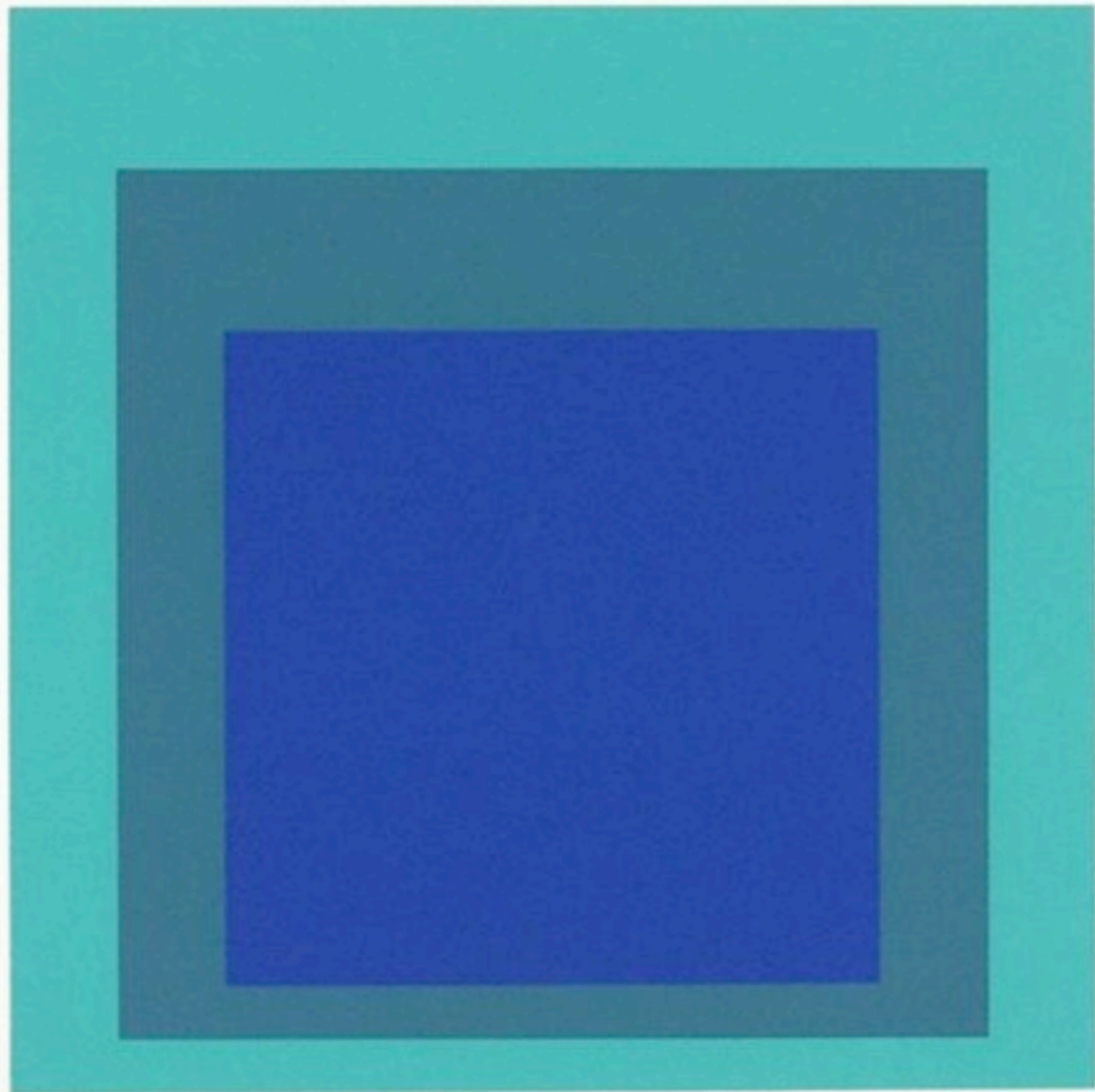


Simultaneous contrast





# Bauhaus



J. Albers

**digital color**

S. Polke

meteorite

POSTdigital





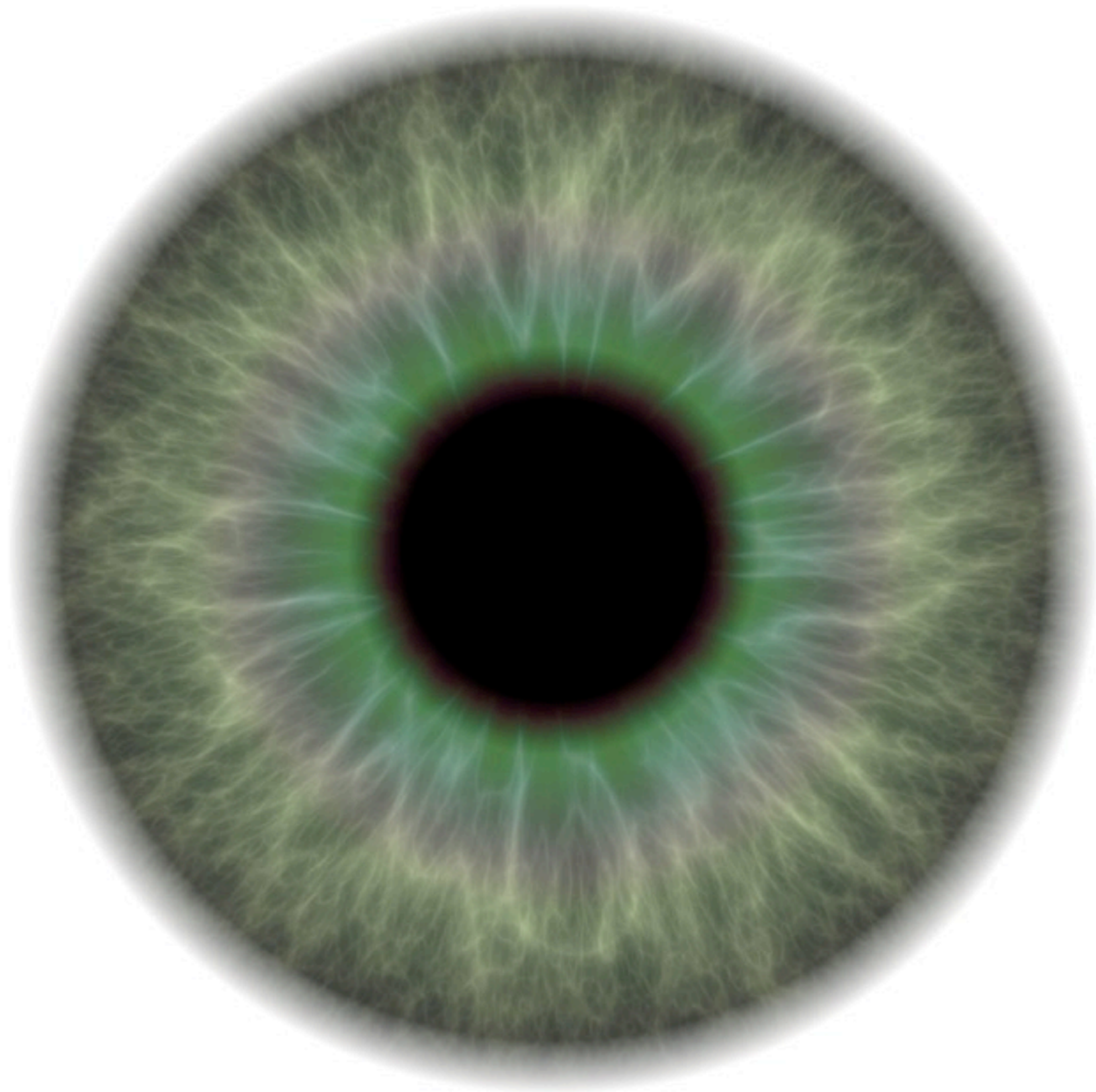
**future of color**

will be based on understanding

interaction between

**PARTICULAR** and **UNIVERSAL**

**ENERGY** and **LIGHT**





**ENERGY**

**ENVIRONMENT**

**LOCAL**

**ESOTERIC**

**UNIVERSAL**

**DISTURBANCE**

**REALITY**

**VIRTUAL**

**SENSATION**

**INTERACTION**

**CHAOS**

**CONTENT**

**SURFACE**

**IDEA**

**INDICATION**

**IDEAL**

**ART**

**CORRUPTED**

**LEARNING**

**NATURE**