

THE HIDDEN SENSE

SYNESTHESIA IN
ART AND SCIENCE

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CRISTOBAL CLUNES G.

MAXIMILIANO TELLO P.

NICOLÁS PEREDA C

ÍNDICE

CAPÍTULOS A DESARROLLAR

1. MUSIC VIDEO CLIP WITHOUT TV
2. EXPLORING DRUG-INDUCED SYNESTHESIA
3. A COLORED BRAIN?
4. THE HIDDEN SENSE

The background is a vibrant, abstract composition of swirling light trails. The colors transition smoothly between deep blues, bright purples, fiery reds, and golden yellows. These trails form complex, organic shapes that overlap and converge, creating a sense of dynamic movement and depth. The overall effect is reminiscent of a celestial nebula or a microscopic view of a turbulent fluid flow.

SINESTESIA

SINESTESIA

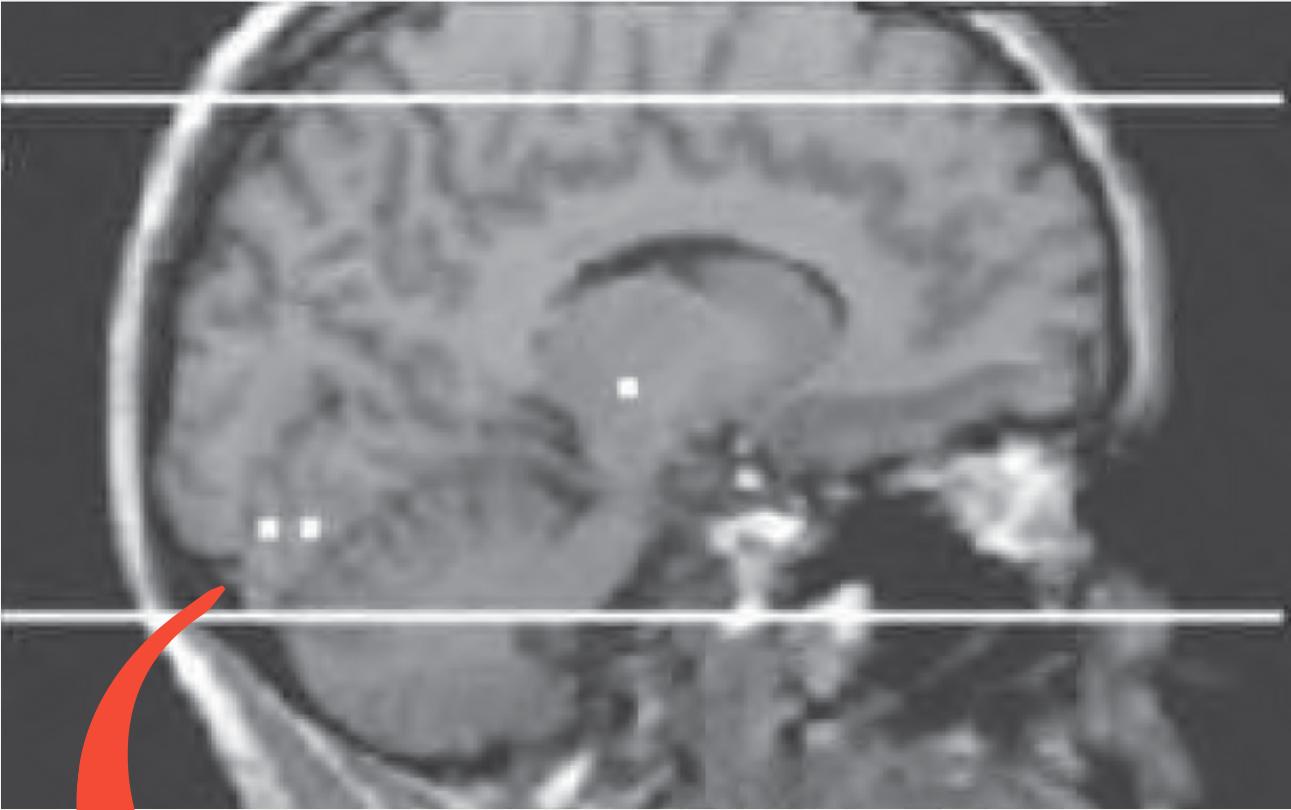
UN FENÓMENO NEUROLÓGICO

Syn = Sentir / Aisthesis = En conjunto

Ocurre cuando un estimulo de un sentido
(tacto, vista, olfato, sabor, audición)
inmediatamente evoca una sensación en
otro sentido.



EXPLICACIÓN NEUROLÓGICA



Escáner cerebral de paciente sinestésico: en el centro de vision de color (a la izquierda) hay actividad cuando escucha las palabras. Esta actividad esta ausente en no sinestesicos

POLÉMICA

La sinestesia como una discapacidad neurológica, un “corto circuito” entre áreas del cerebro que procesan sentidos. Lo cual debe ser “reparado”.



V S .

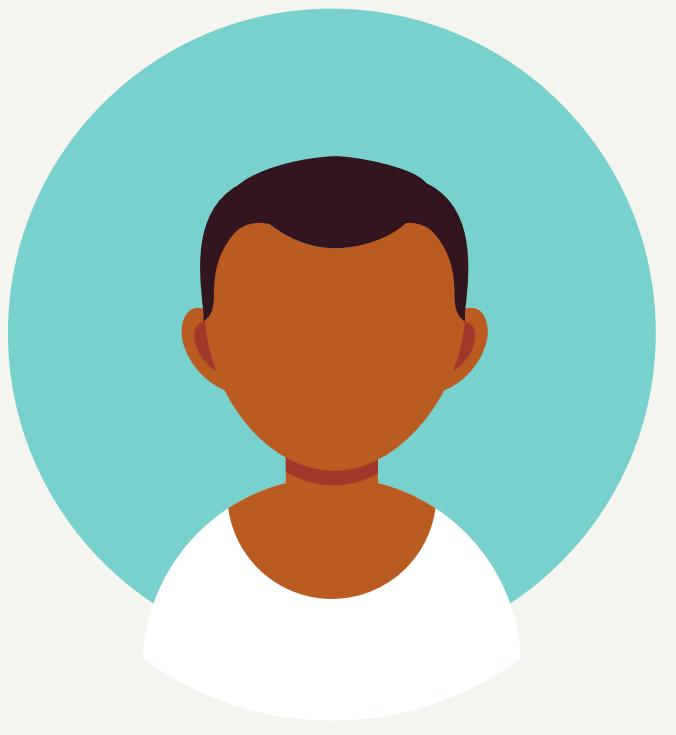
Muy frecuente que sinestesicos se refieran a su condición como una ventaja/habilidad útil.



MUSIC VIDEO CLIP WITHOUT TV

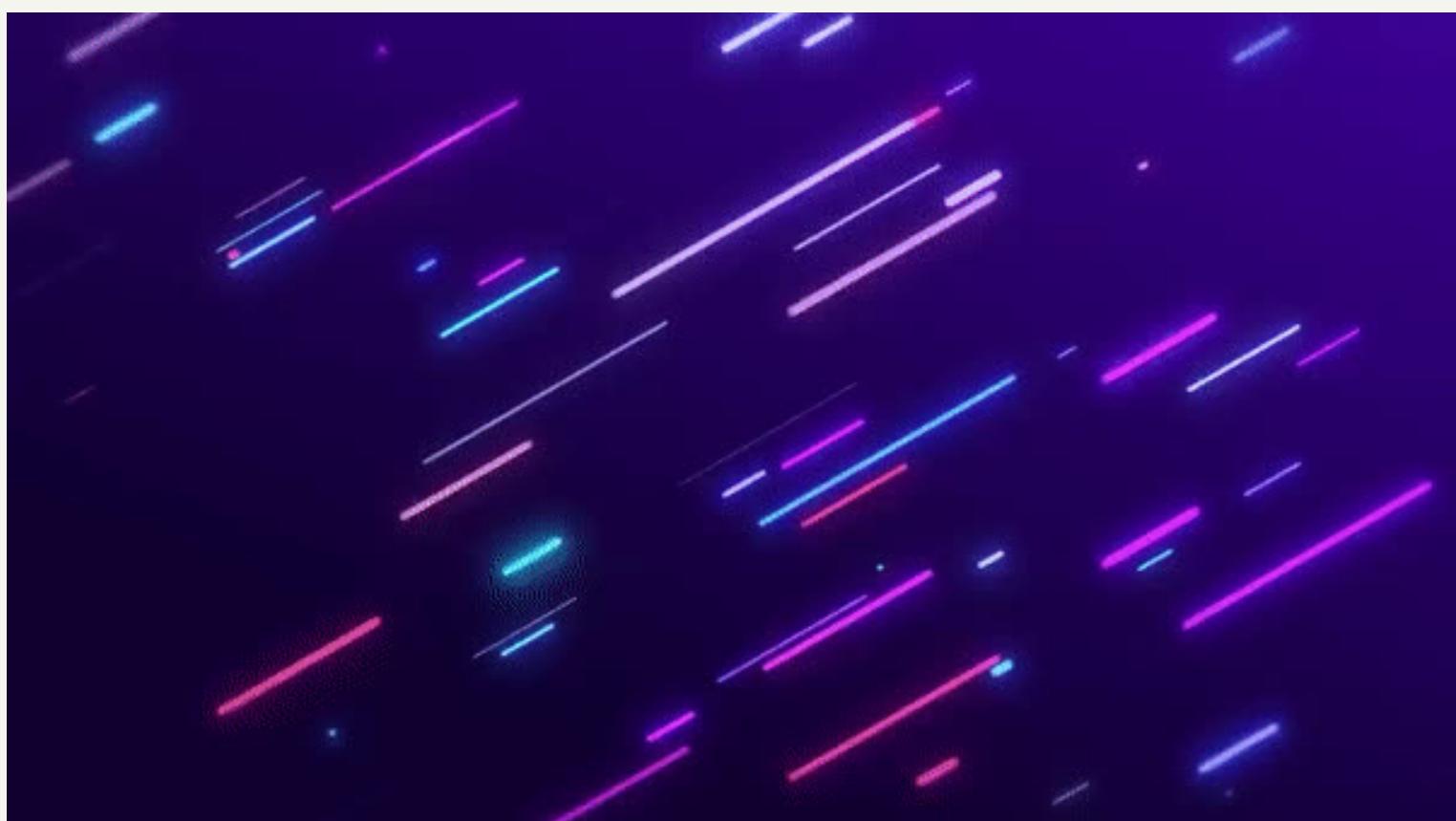
EL AUTOR ESTUDIA ENTONCES COMO PERCIBEN LOS Y LAS SINESTESICOS. COMO SE SIENTE PERCIBIR EL ENTORNO Y LA MÚSICA DE MANERA VISUAL.

EXPERIENCIAS



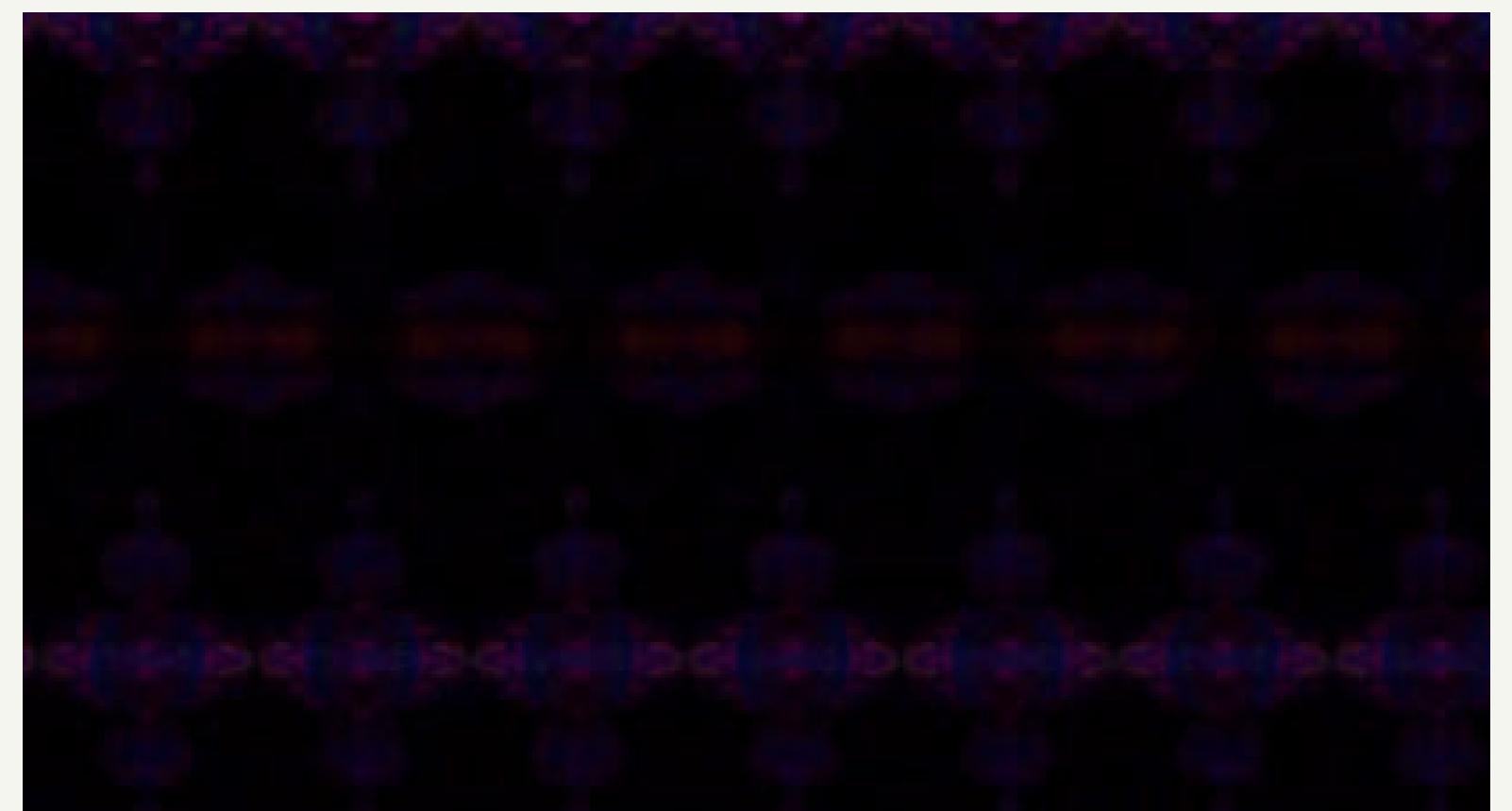
PATRICK HELLER

Líneas coloridas y formas

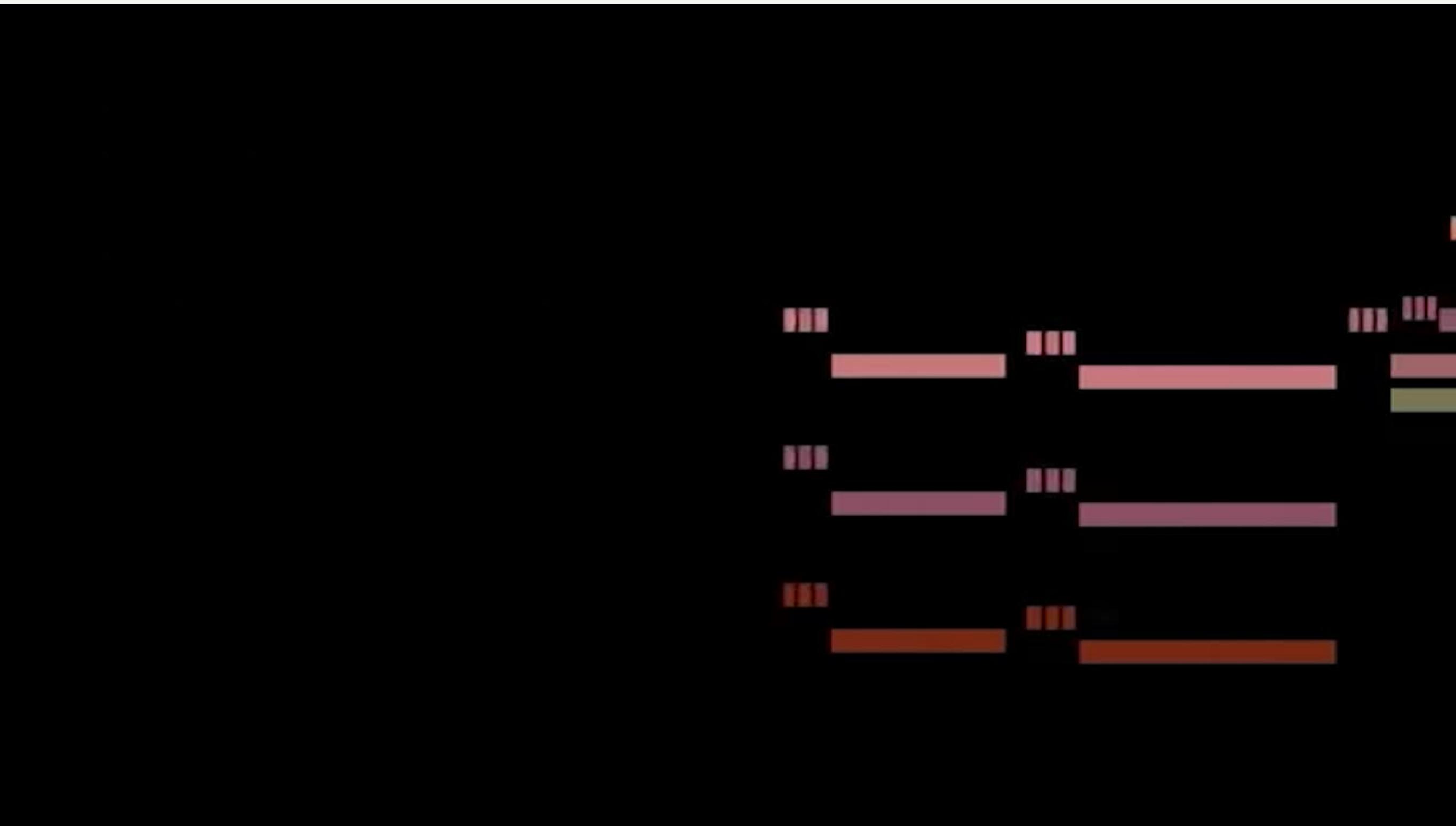


FLOOR EIKELBOOM

Patrones complejos de luces de colores
que se entrelazan



MUSIC ANIMATION MACHINE

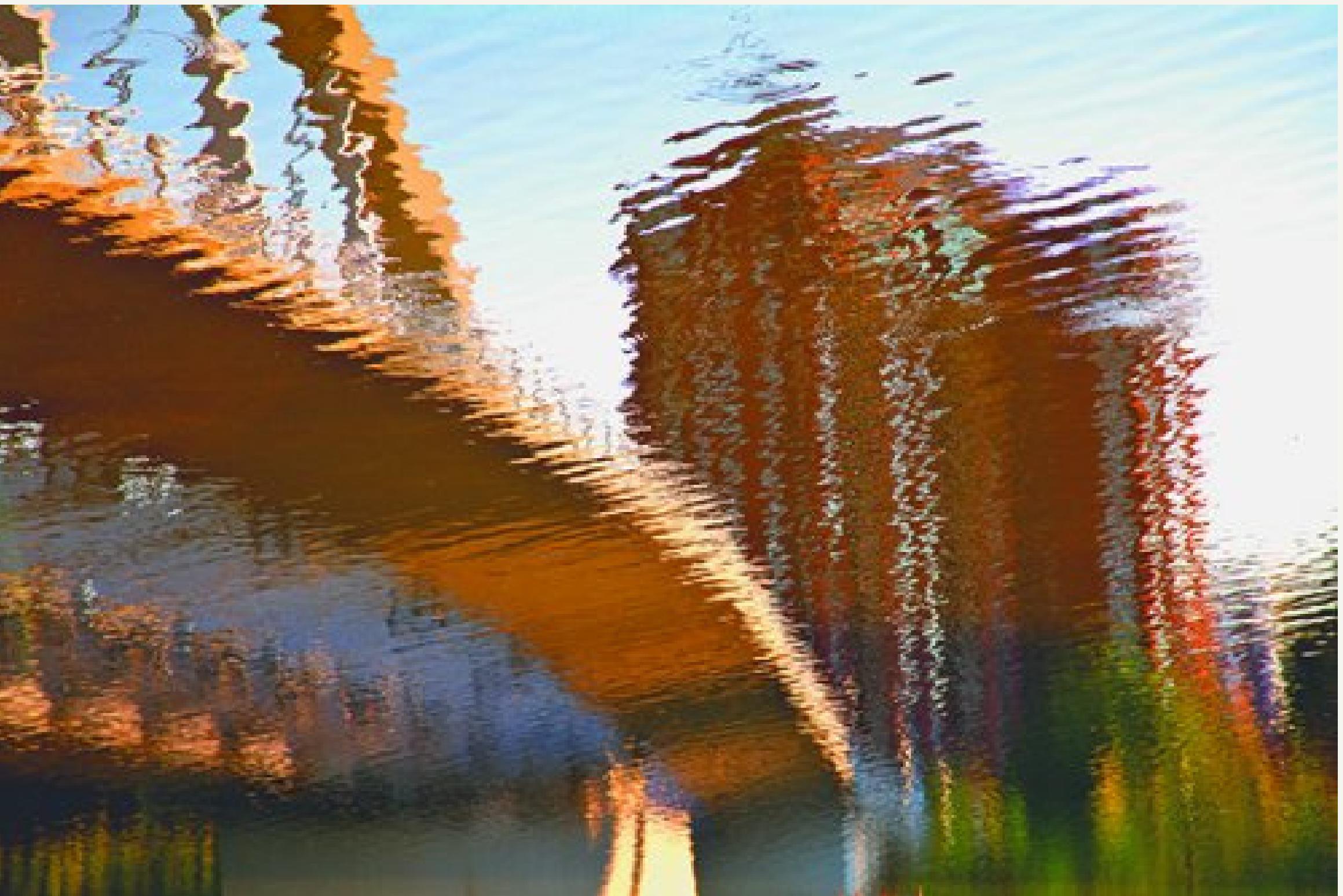






MARCIA SMILAK

Fotografa de Bellas Artes.
Percibe colores de los
sonidos; y viceversa,
sonidos desde imágenes.



"Vibrato Bridge"



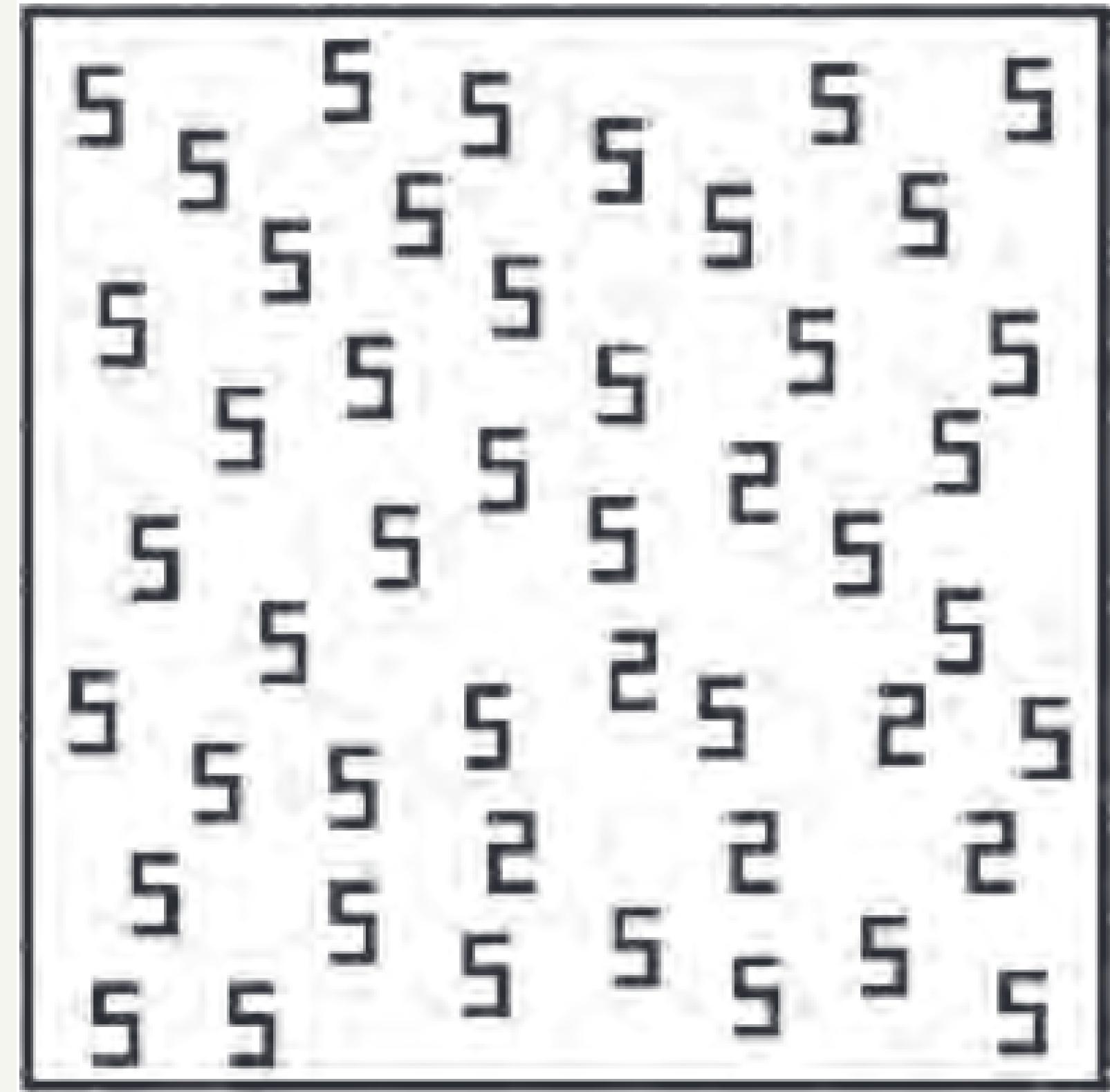
II.7 **SINESTESIA EN DROGAS**

¿Están relacionadas?

¿Son lo mismo?

¿Dependen del otro?

PERO ANTES



1 2 3 4 5 6 7 8 9

1 2 3 4 5 6 7 8 9

HINDRY SCHOONHOVEN

1 2 3 4 5 6 7 8 9

3 4

4 A E 3 | 1

HINDRY SCHOONHOVEN

0 1 2 3 4 5 6 7 8 9 10

8 10 340 517

9 + 11

2 + 1

8 + 3

$9 + 11 = 20$

$2 + 1 = 3$

$8 + 3 = 11$

1

.....

-1

5
4
3
2
1



10

9

8

7

6

5

4

3

2

1



10 11 12 13 14 15 16 17 18 **20**

9

8

7

6

5

4

3

2

1



6 0

5 5

5 0

4 5

4 0

3 5

3 0

1 0 11 12 13 14 15 16 17 18 **2 0**

9

8

7

6

5

4

3

2

1



100

90

80

70

60

55

50

45

40

35

30

10

11 12 13 14 15 16 17 18

20

9

8

7

6

5

4

3

2

1

-1

700

500

300

200

120

100

90

80

70

60

55

50

45

40

35

30

10

11 12 13 14 15 16 17 18

20

9

8

7

6

5

4

3

2

1

-1

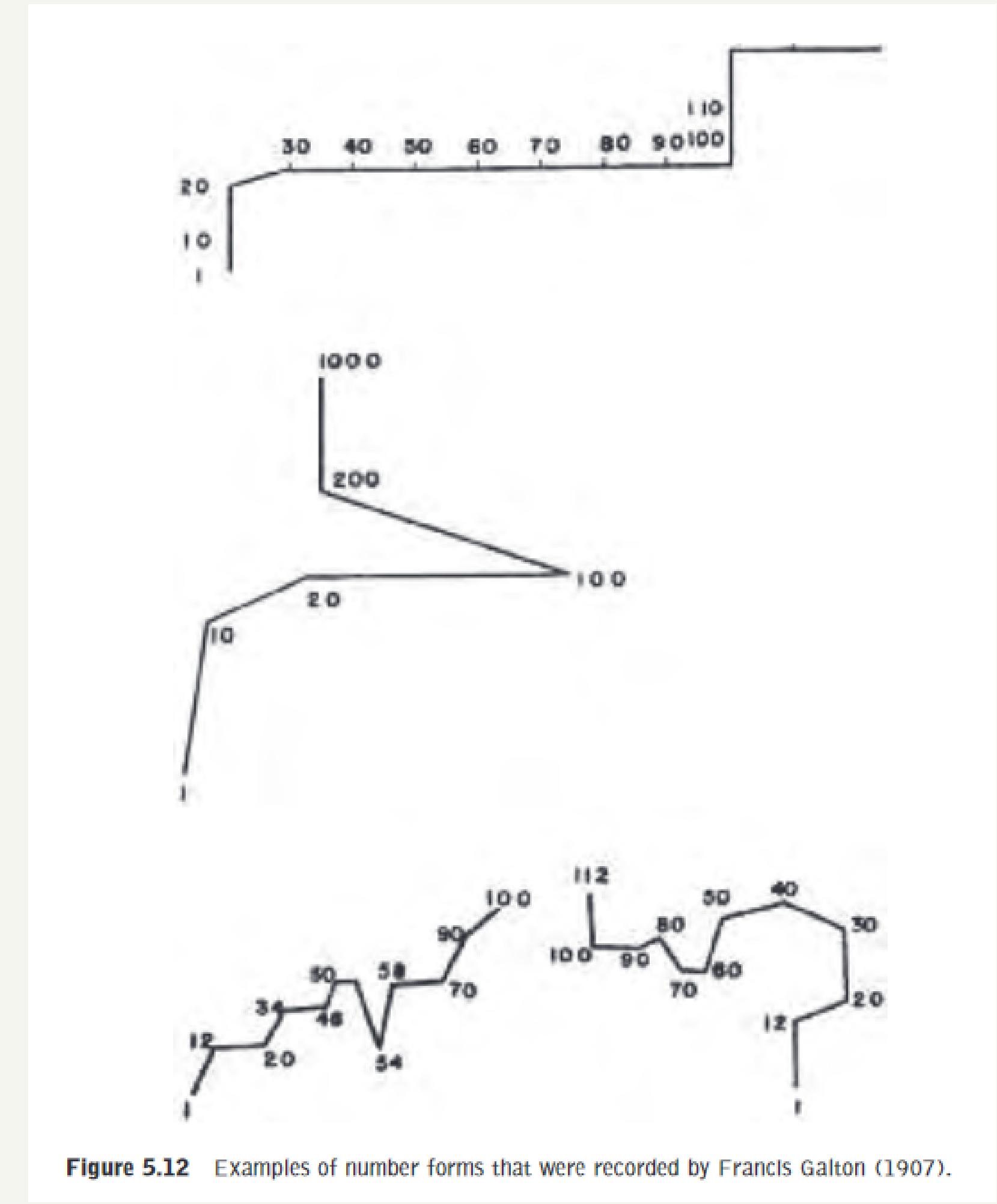
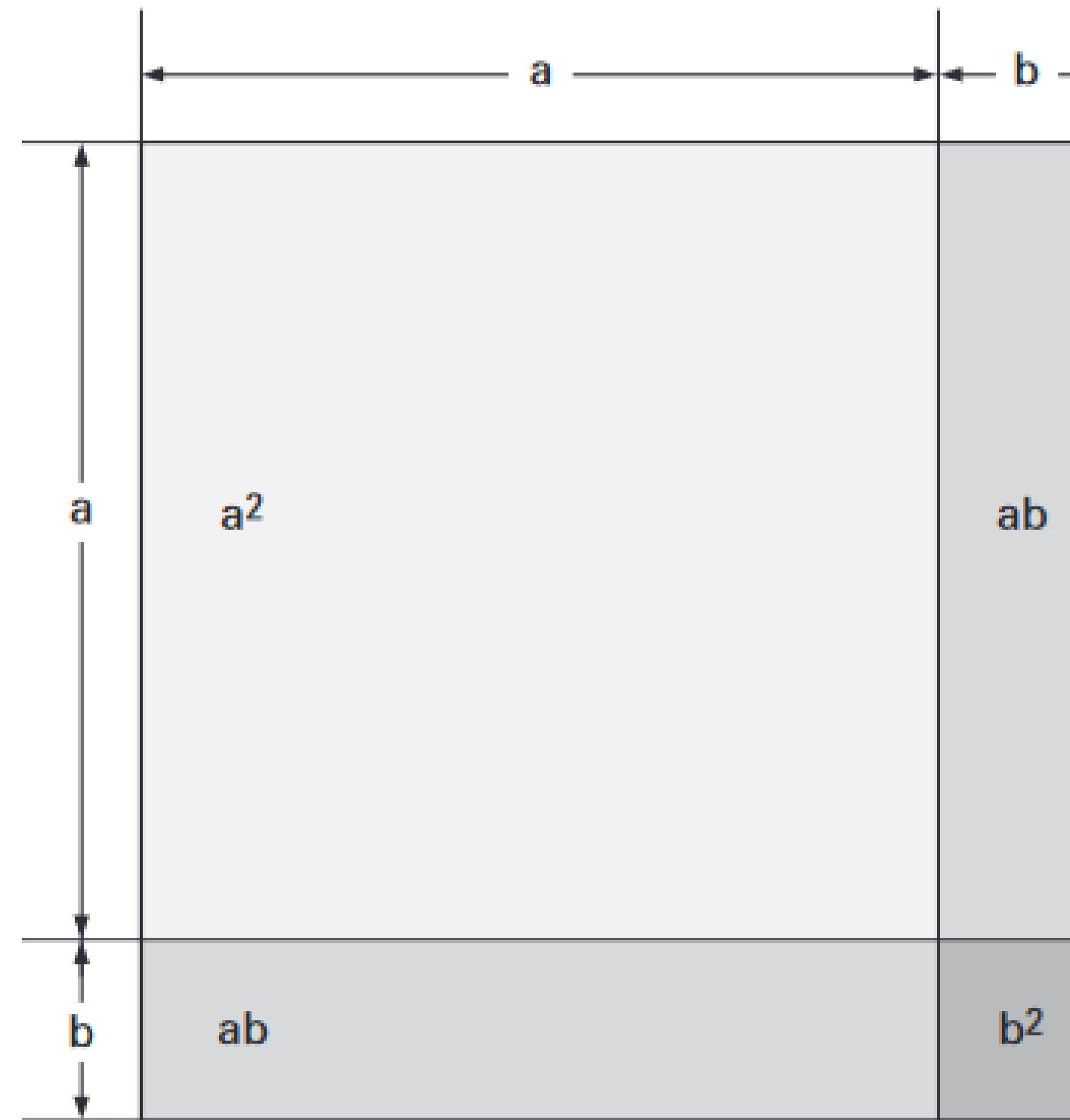


Figure 5.12 Examples of number forms that were recorded by Francis Galton (1907).

Geometric Solution



Algebraic Solution

$$(a + b)(a + b) =$$

$$a \times a + a \times b +$$

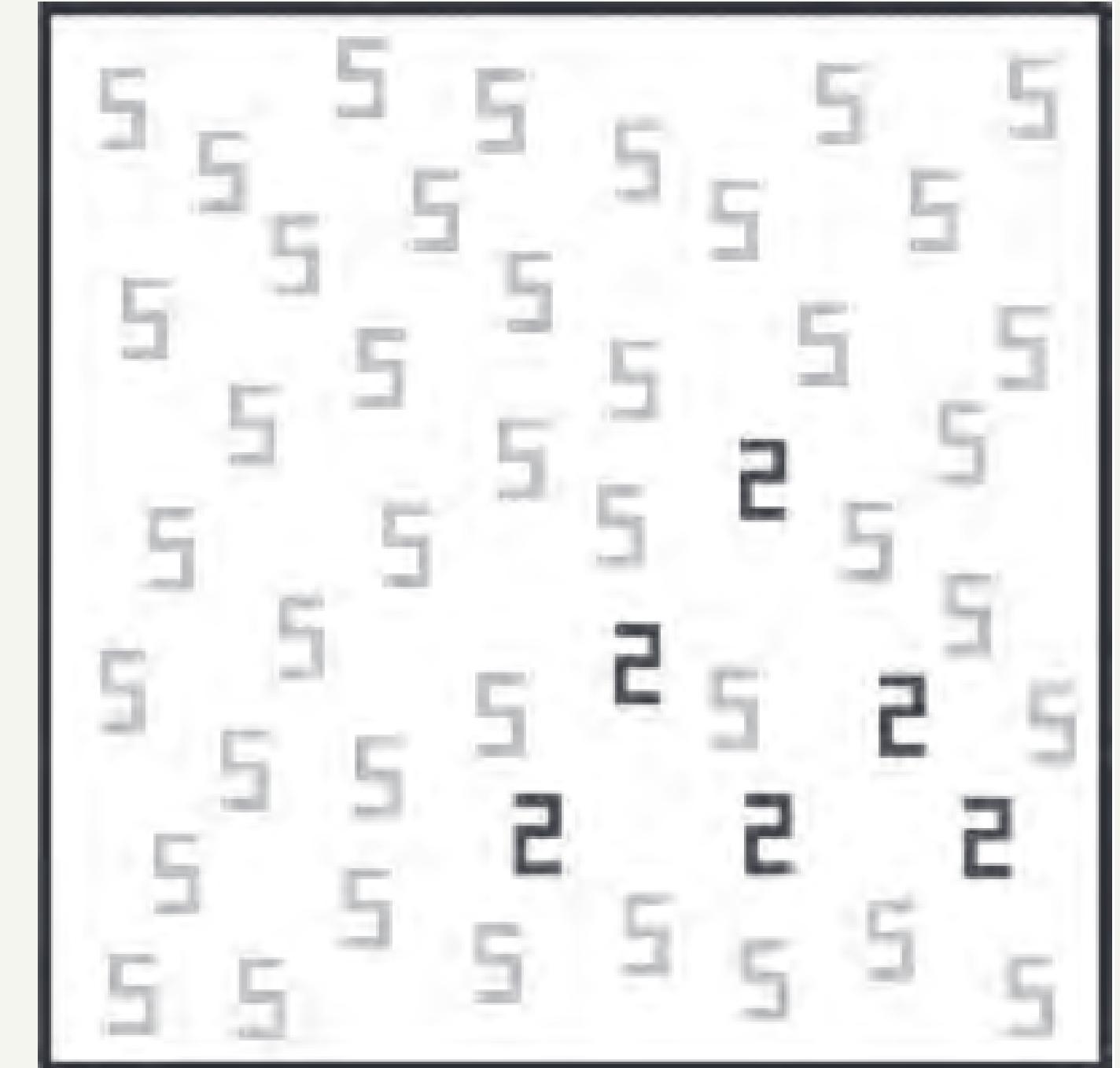
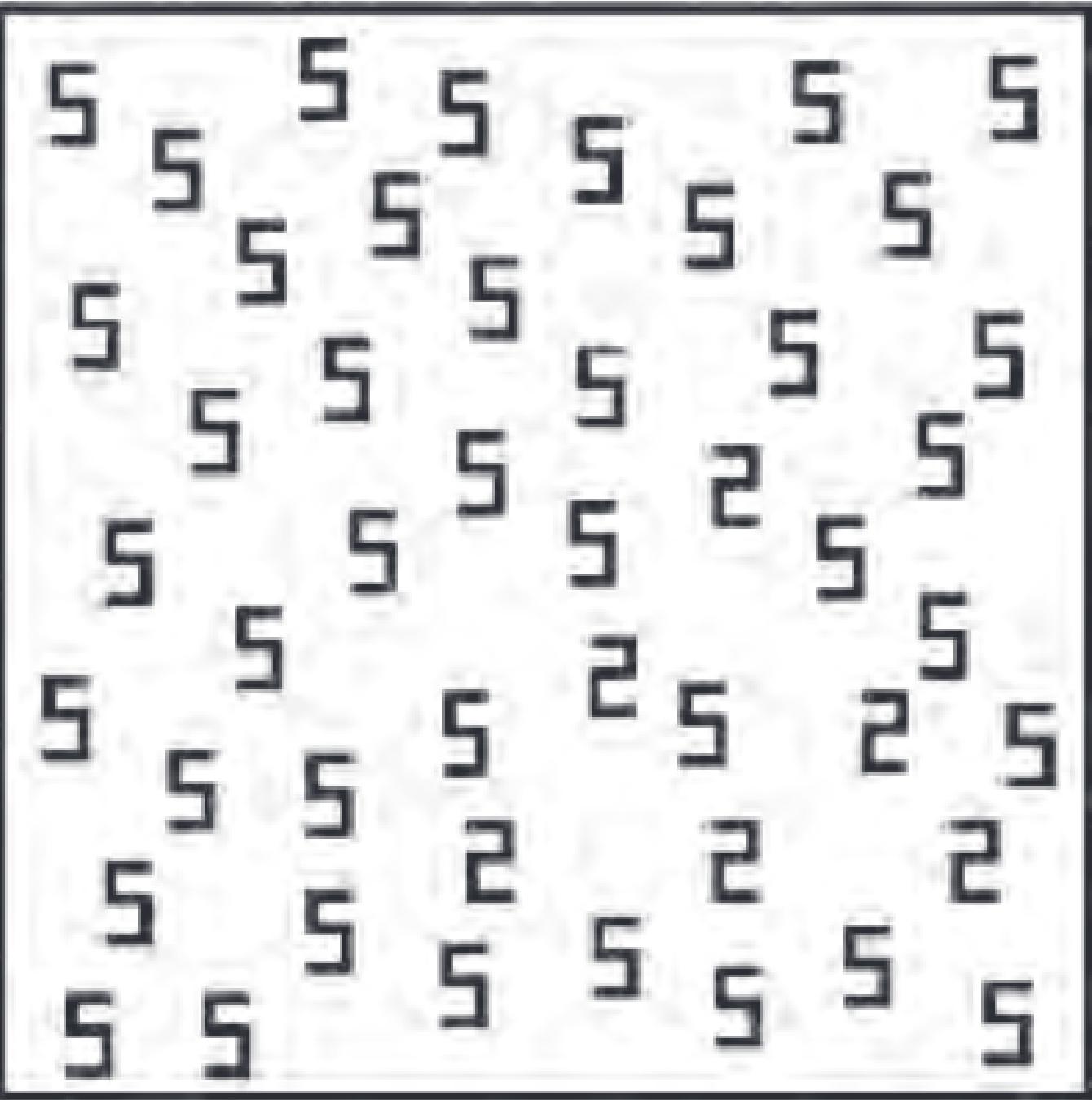
$$b \times a + b \times b =$$

$$a^2 + 2ab + b^2$$

Figure 5.13 Visual or geometrical, left, and algebraic, right, explanations of a mathematical equation.

5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5
5	5	5	5	2	5	5	5	5
5	5	5	2	5	2	5	5	5
5	5	2	5	2	5	2	5	5
5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5







SINESTESIA EN DROGAS

¿Están relacionadas?

¿Son lo mismo?

¿Dependen del otro?





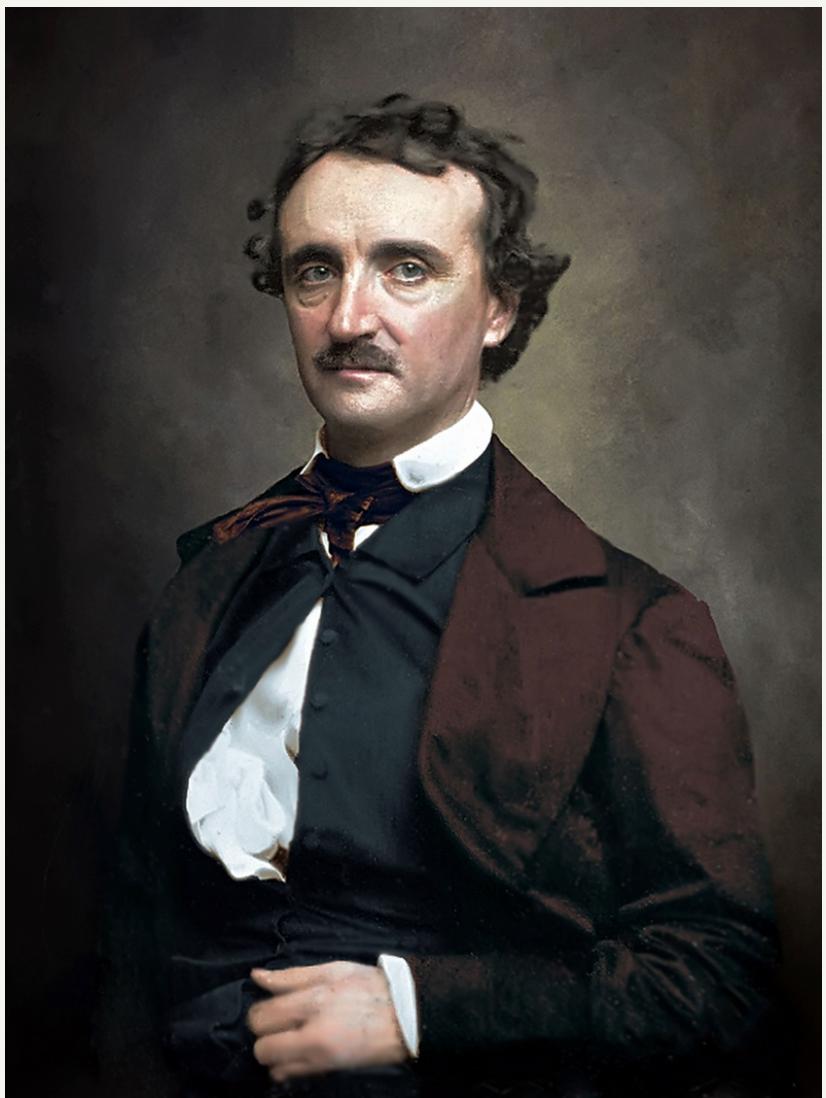
SENTIDOS

Occidente

Oriente

Tribus





EDGAR ALLAN POE
1809 - 1849



THÉOPHILE GAUTIER
1811 - 1872

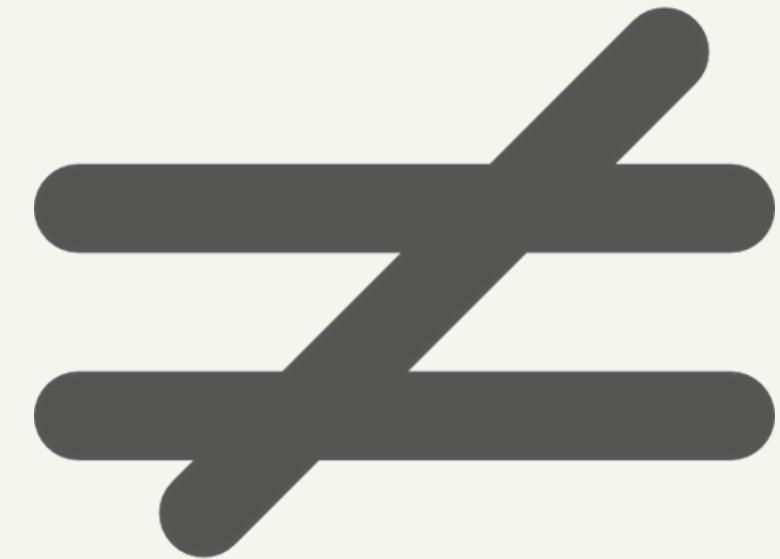


CHARLES BAUDELAIRE
1821 - 1867

SINESTESIA

DE NACIMIENTO

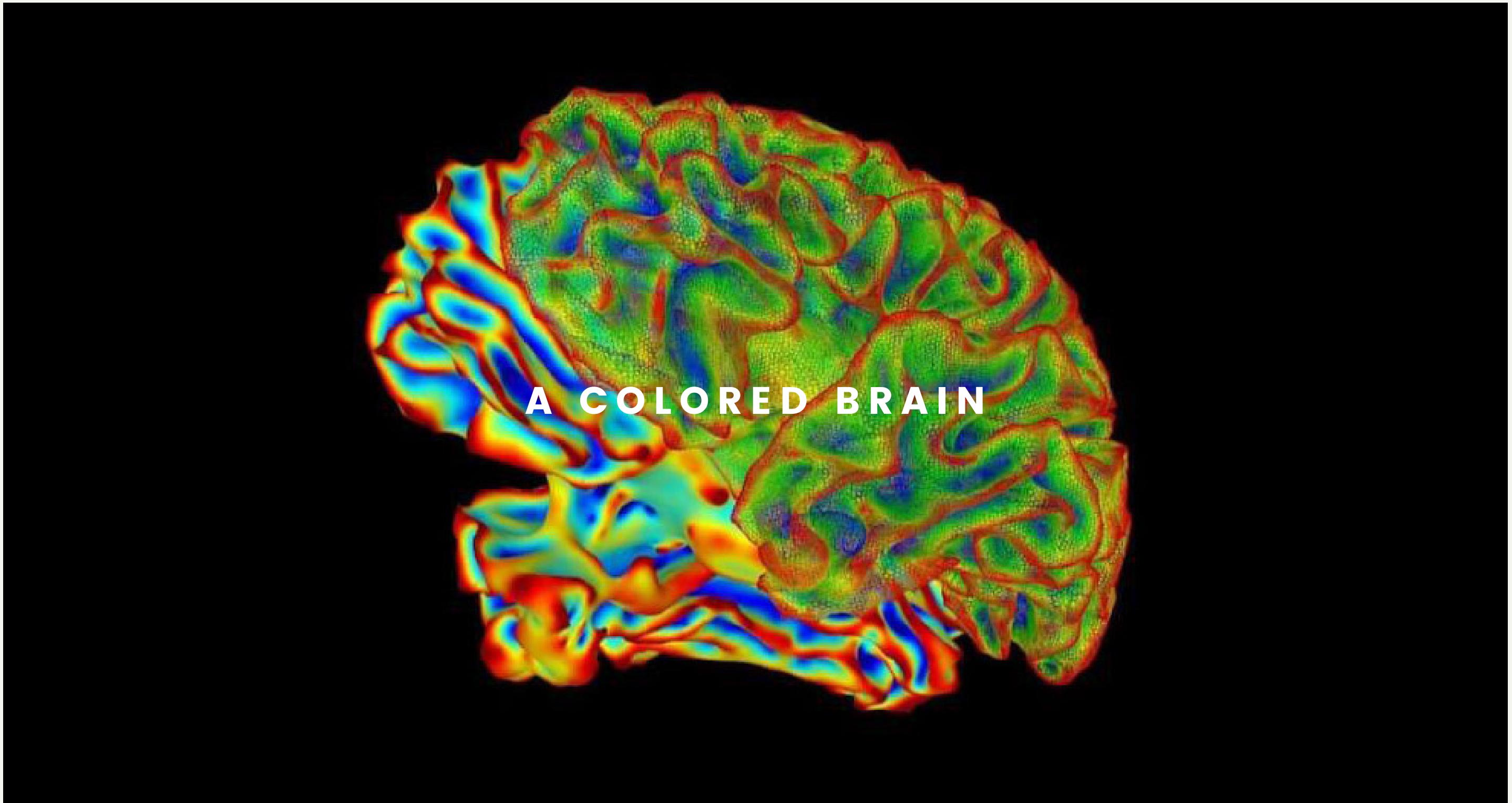
DE POR VIDA



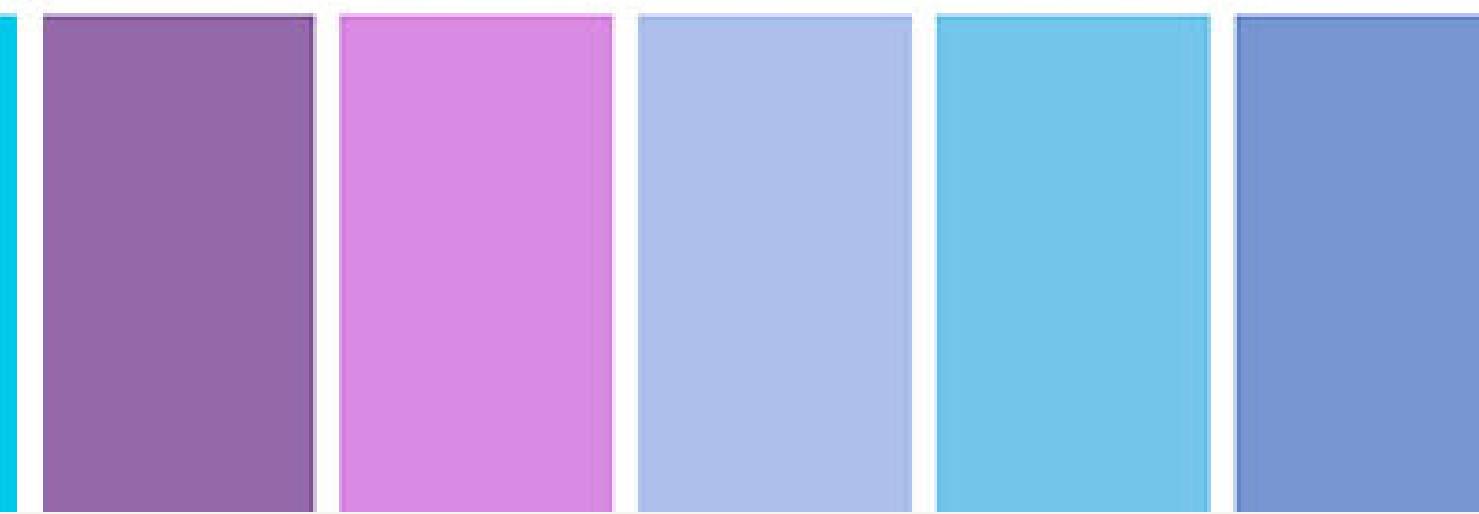
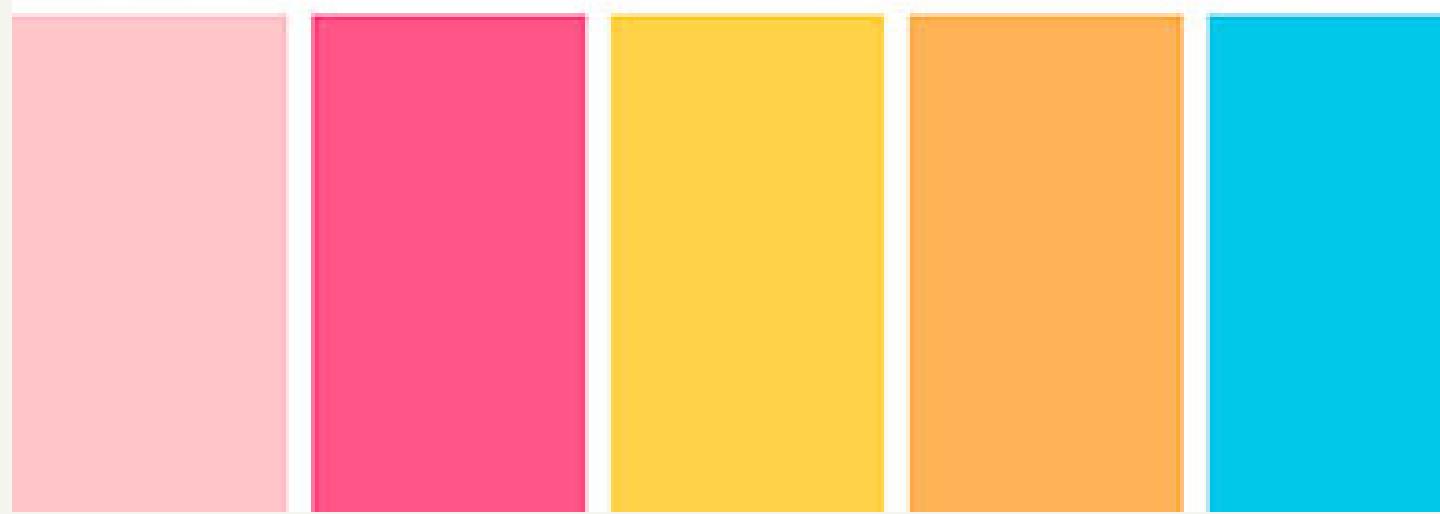
DROGAS

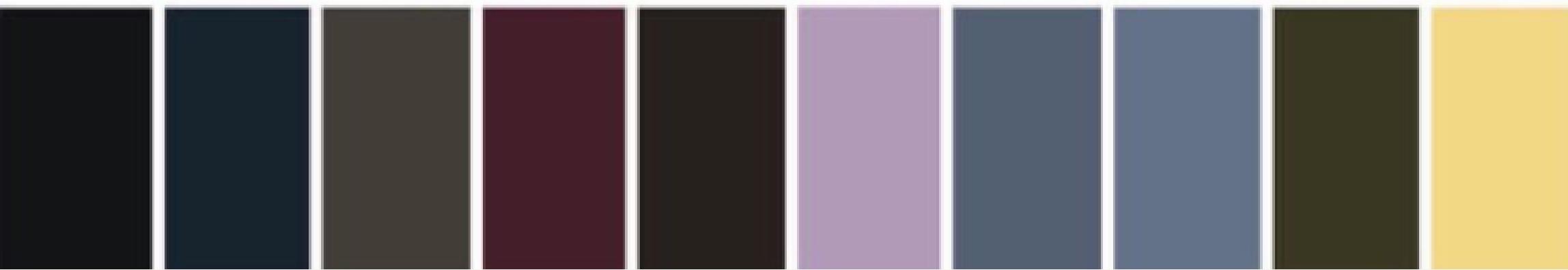
TEMPORAL

SENTIDOS Y PERCEPCIÓN
MODIFICADA









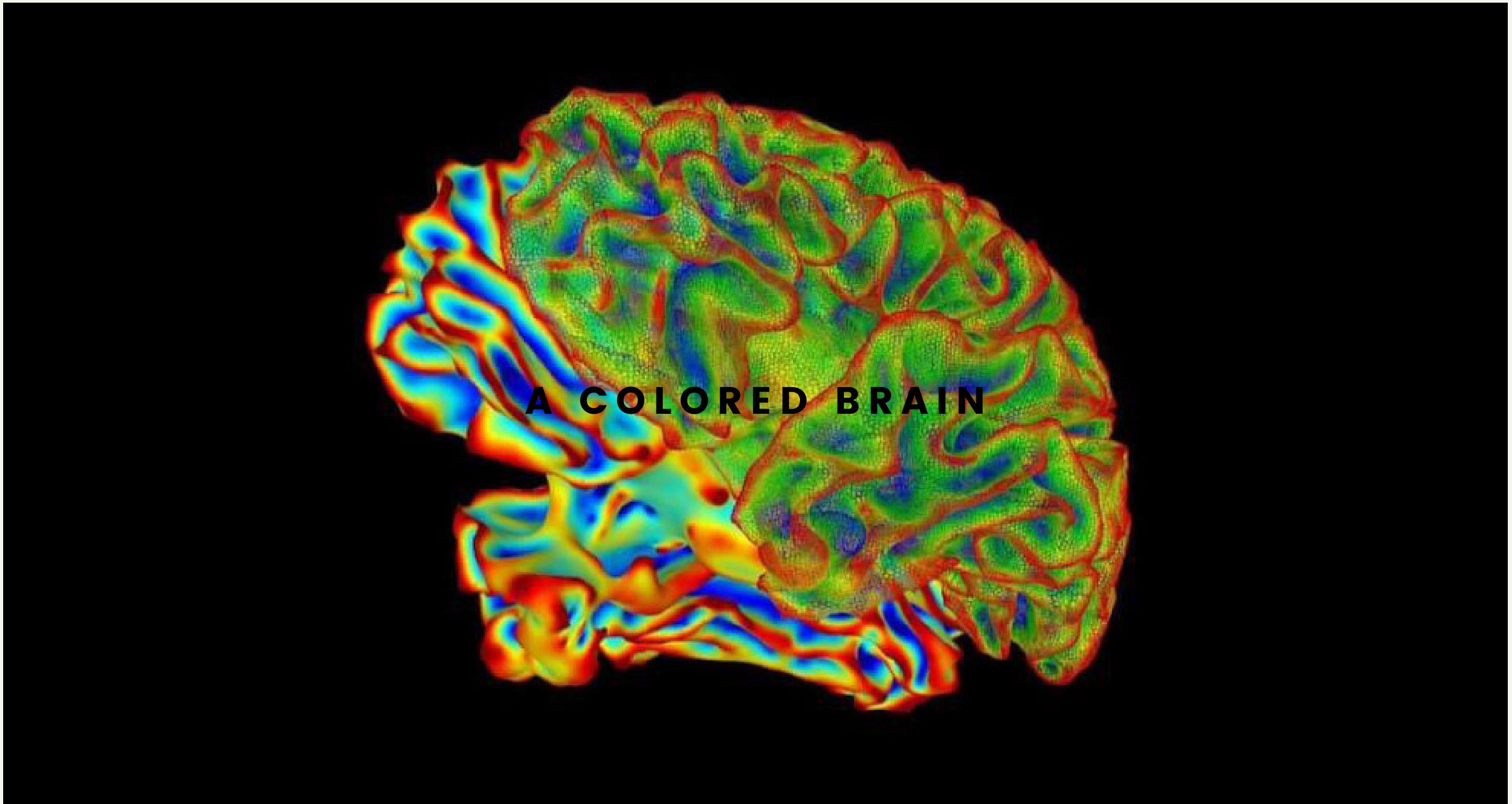
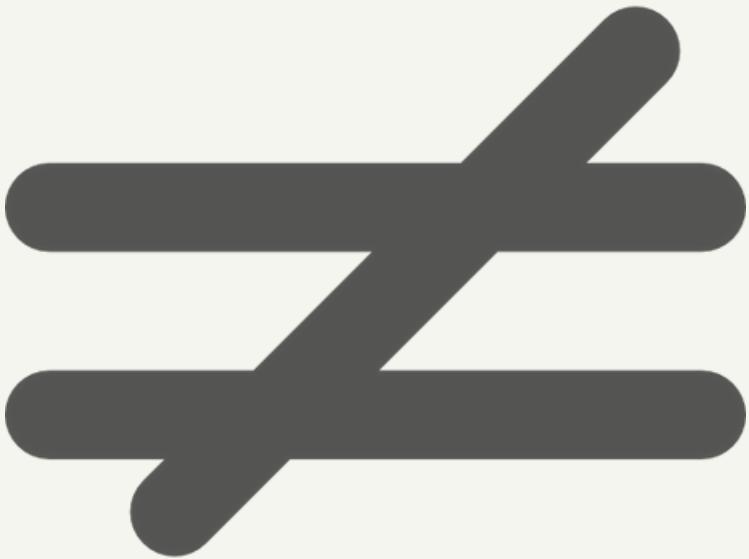


Table 8.1 Theories of Synesthesia in Terms of Brain Function

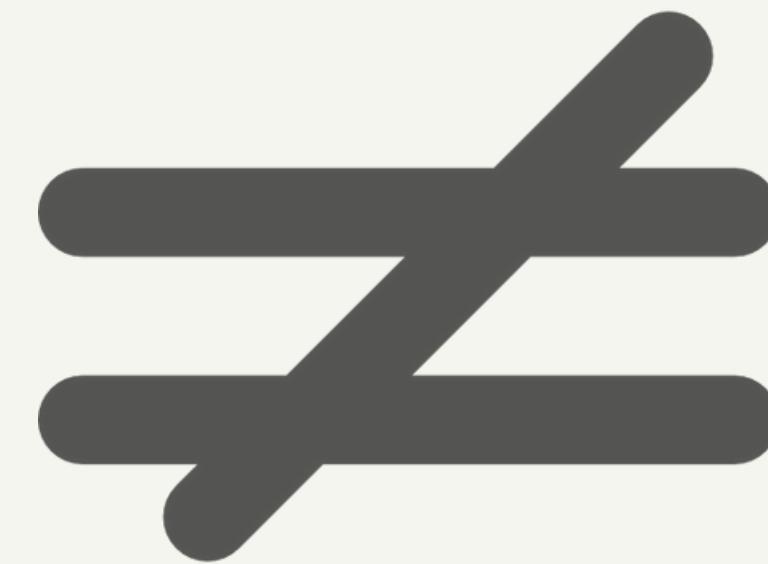
Theory	Cause of Synesthesia
Synesthesia as <i>abnormal brain function</i>	
"Miswiring"	Miswiring between sensory parts in the brain
"Leakage"	Leakage of information between adjacent brain parts
"Wrong feedback"	Wrong processing of feedback in the brain
Synesthesia as <i>normal brain function</i>	
"Limbic system"	Emotional structures in the limbic system of the brain
"Neonatal pruning"	"Pruning" of nerve connections in newborns
"Brain plasticity"	Functional reorganization of brain areas
"Neural disinhibition"	Permanent activation of formerly inhibited nerve connections

**CEREBRO
HUMANO**

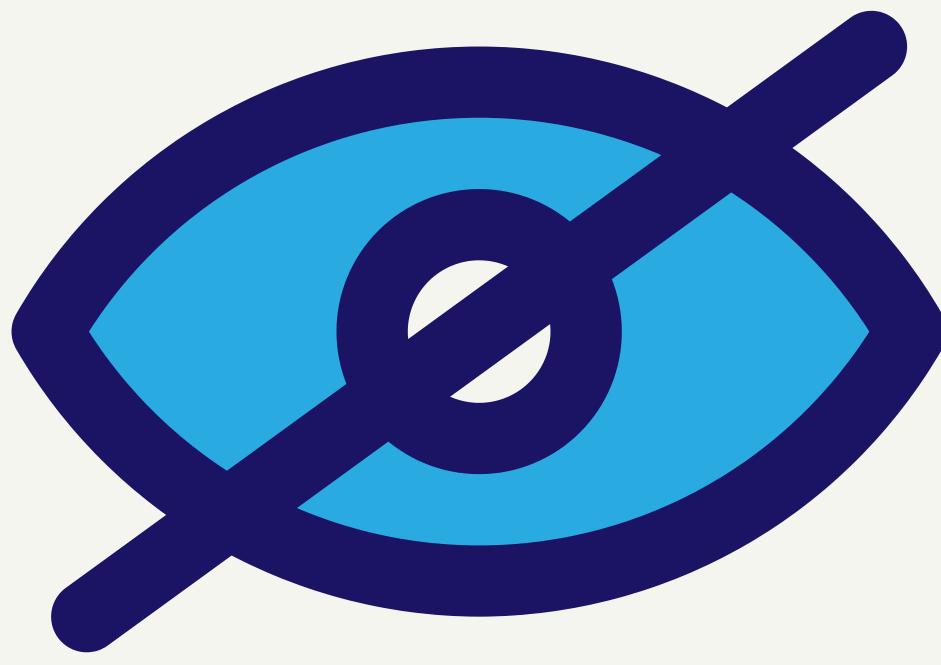


**CEREBRO
ARTIFICIAL**

SYNESTHETE



SYNESTHETE

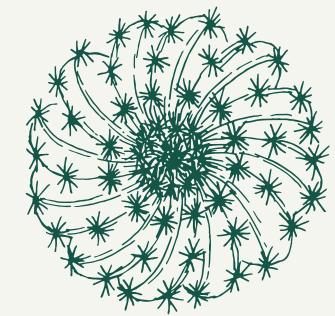


THE HIDDEN SENSE

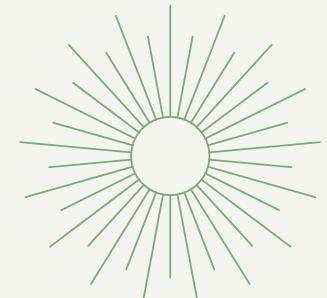
QUE NO ES

**QUE SE
ENCONTRÓ**

¿DE QUÉ HABLAREMOS?



SIGNIFICADO



FUNCIÓN



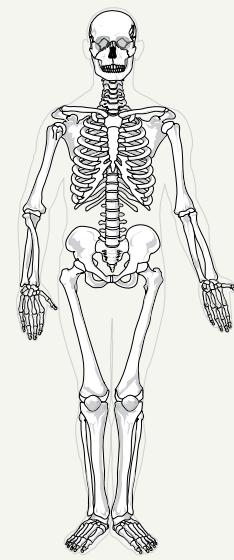
SIGNIFICADO

**¿CÓMO PUEDEN LOS SERES HUMANOS PERCIBIR UNA
EXPERIENCIA UNIFICADA EN LA MULTITUD DE
IMPRESIONES SENSORIALES?**



SIGNIFICADO

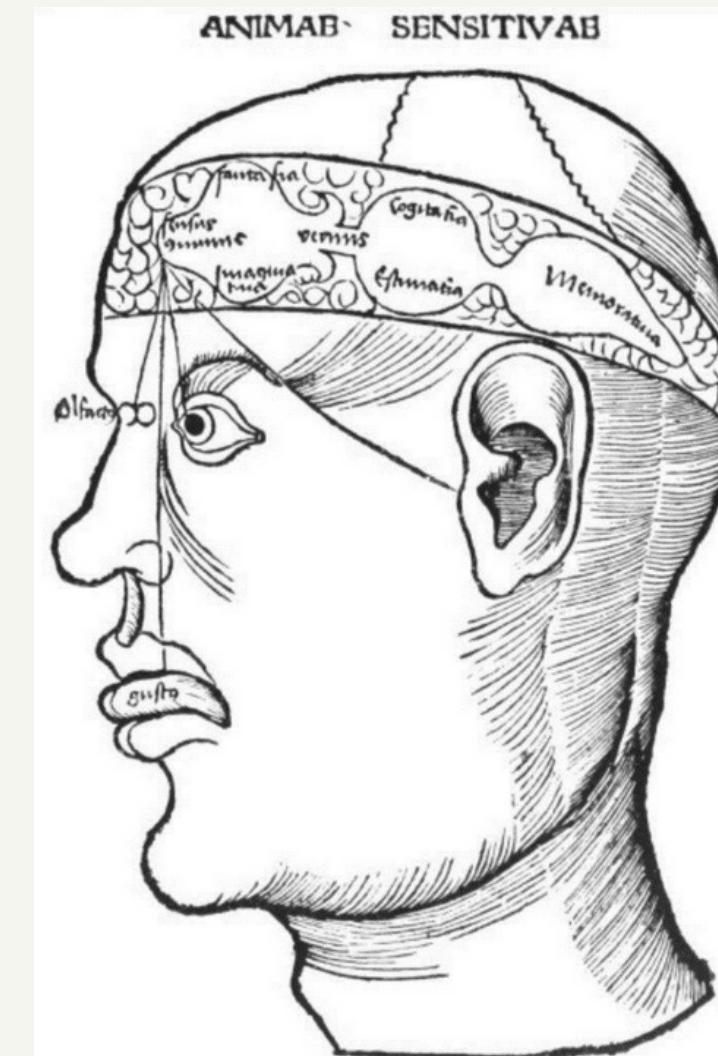
HISTORIA



SENSUS COMUNNIS

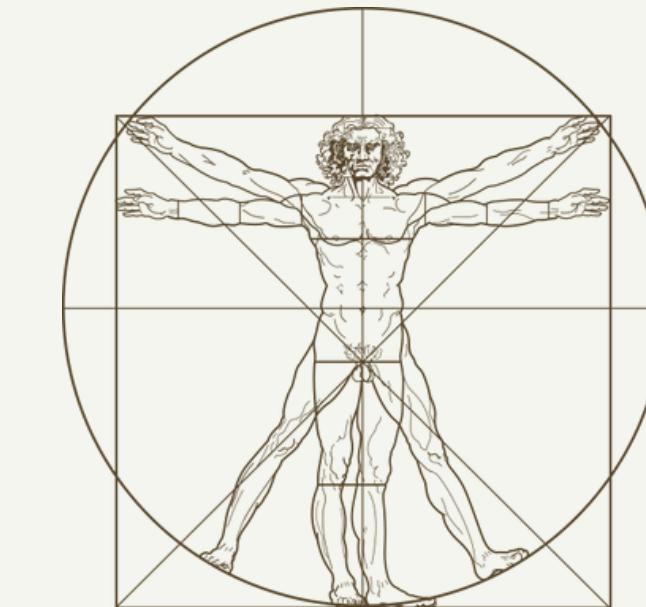
Percibe las cualidades en común entre los distintos sentidos externos.

ARISTÓTELES
[384 B.C - 322 B.C]

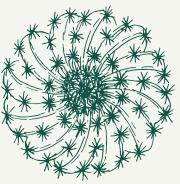


TOMÁS DE AQUINO
[1225 - 1274]

- No es común percibir sonidos en color.
- Decir el color "correcto" de un tono musical no puede derivarse de un "sentido común".

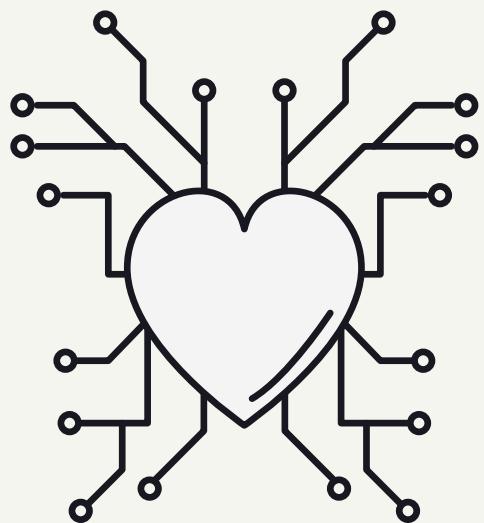


LEONARDO DA VINCI
[1452 - 1519]



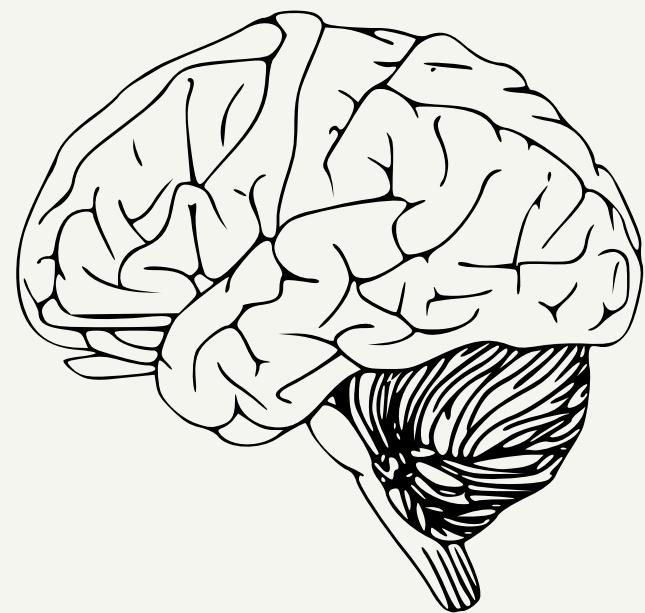
SIGNIFICADO

HISTORIA



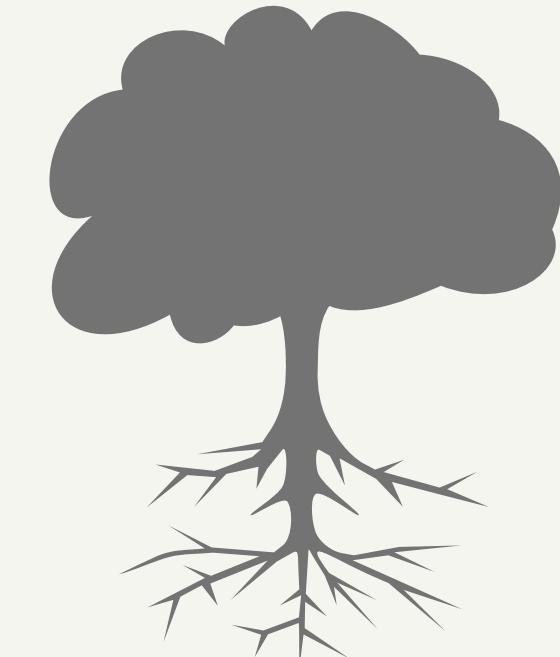
- Razón sensitiva (ej. melodía)
- Razón intelectual (lógica)

J E A N - J A C Q U E S
R O U S S E A U
(1 7 1 2 - 1 7 7 8)



- *Sensus communis* (sincronestesia)
- *Sensus communis aesthetic* (sinestesia)

E M A N N U E L K A N T
(1 7 2 4 - 1 8 0 4)



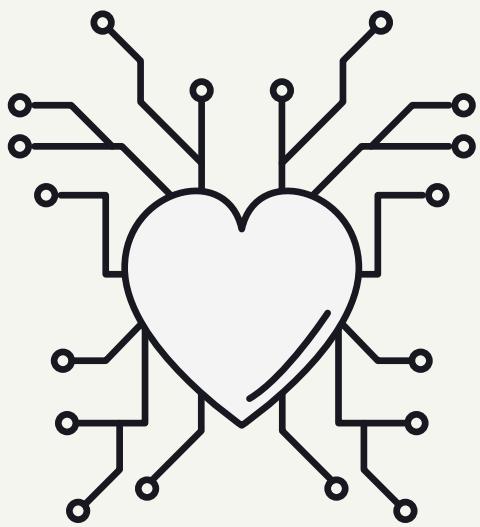
De un todo se derivan las partes.

G E S T A L T
S . X X



SIGNIFICADO

HISTORIA



- Cuerpo como organo sensitivo (subjetivo).
- Inconsciente es sinestésico.

MAURICE MERLEAU-
PONTY
1950



SIGNIFICADO

NEW VIEW





FUNCIÓN

FUNCIONES

PLACER

CONCIENCIA

CREATIVIDAD

**HEAVEN IS A
PLACE NOT TO
FAR AWAY**

THANK YOU