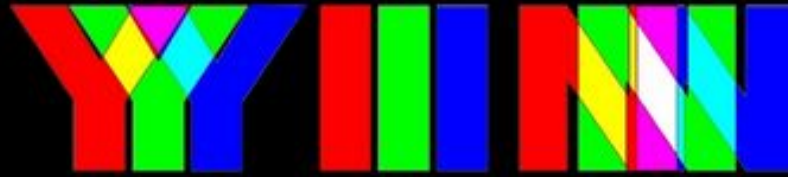


Additive color



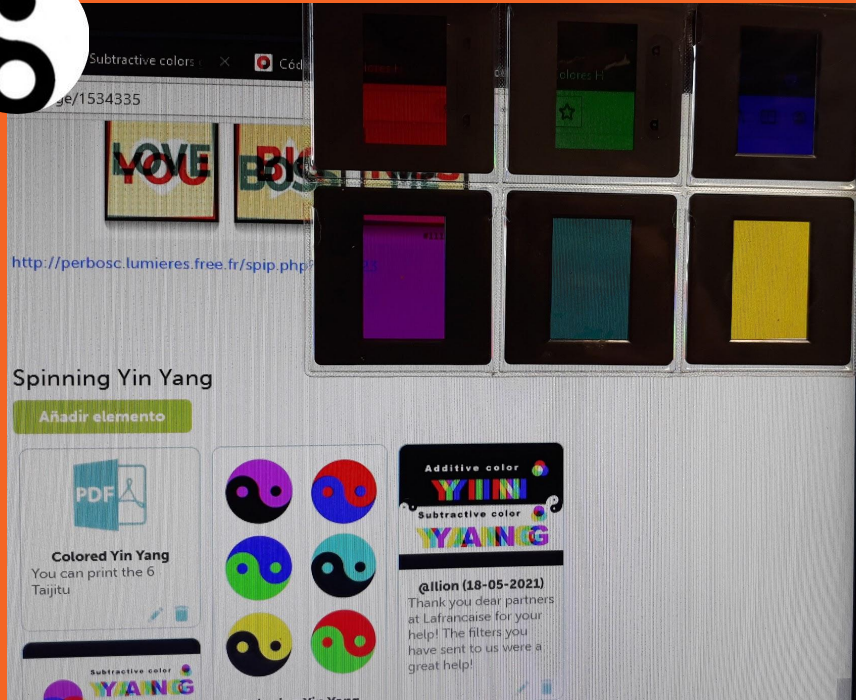
Subtractive color



IES Cantabria – Santander SPAIN



A parcel from Ilion High School (GREECE) arrived to our school the 27th May, 2021



The parcel contains 6 filters to experiment with Color Systems.
Those filters made a trip from Lafrançaise (FRANCE) to Ilion (GREECE) and then
—from Ilion to Santander (SPAIN).—

ADDITIVE COLOR SYSTEM → RGB RED-GREEN BLUE



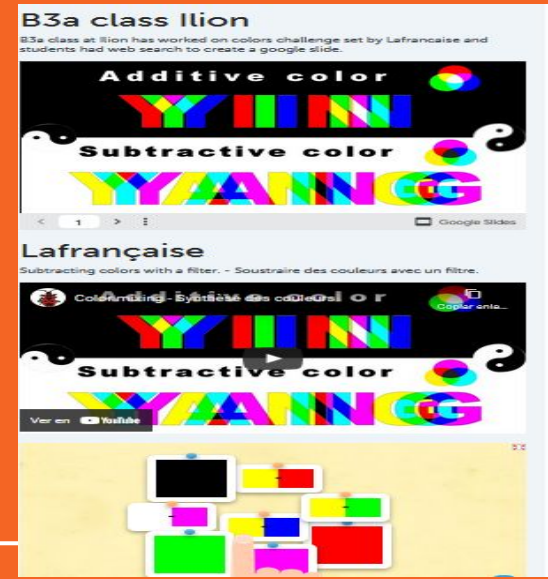
RED GREEN BLUE



CYAN MAGENTA YELLOW
SUBTRACTIVE COLOR → SYSTEM CMY CYAN-MAGENTA YELLOW



The teacher watches the videos post in the TwinSpace by Lafrançaise and Ilion students and makes some research before the session with students.





Sara
Paula
Claudia
Elsa
Mateo



Students take the challenge and start to combine the filters using the Additive and Subtractive Color System.

Subtractive Color System CMY: **CYAN** – **MAGENTA** – **YELLOW**

MAGENTA

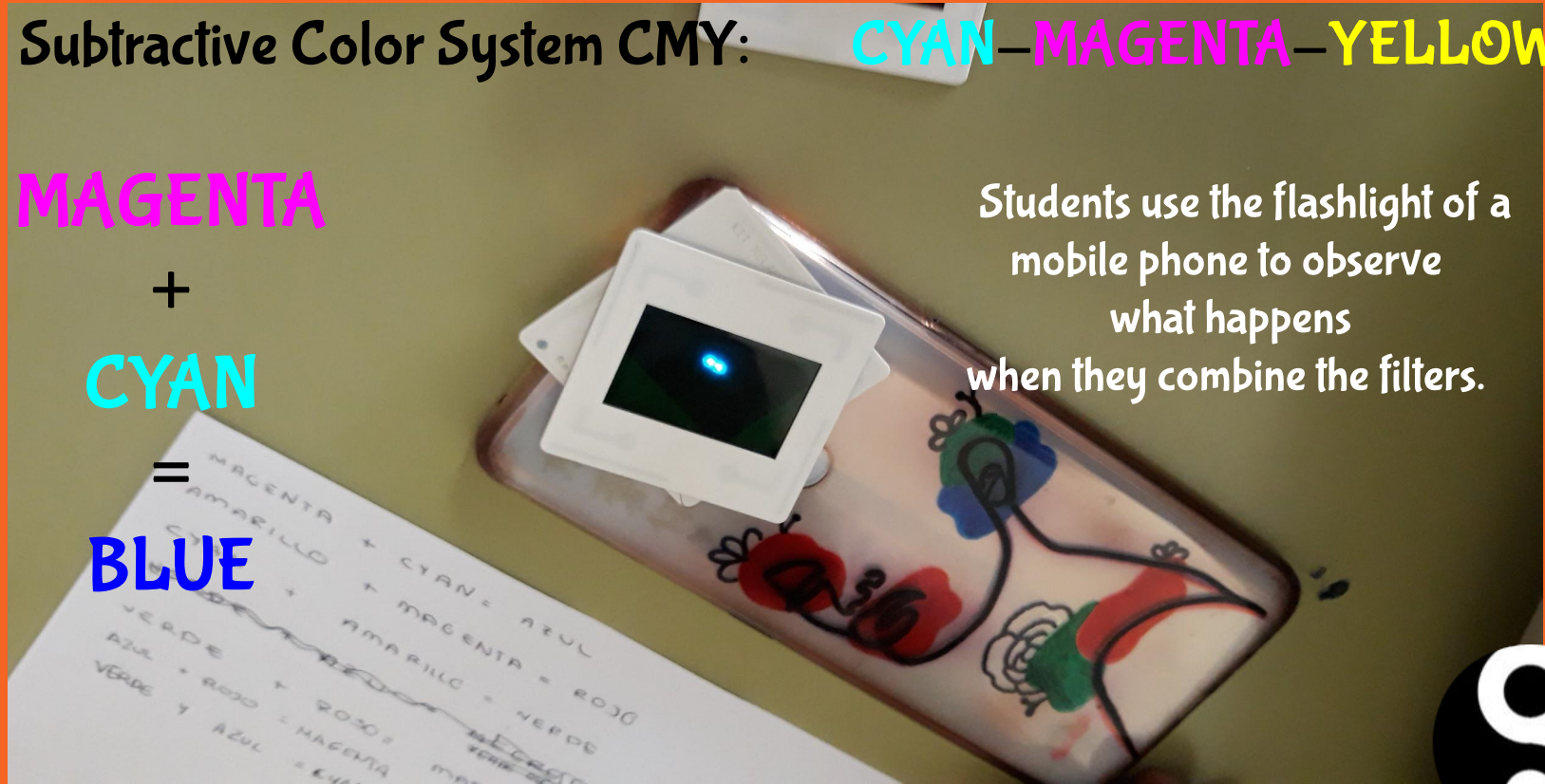
+

CYAN

=

BLUE

Students use the flashlight of a mobile phone to observe what happens when they combine the filters.



MAGENTA

+

CYAN

=

BLUE



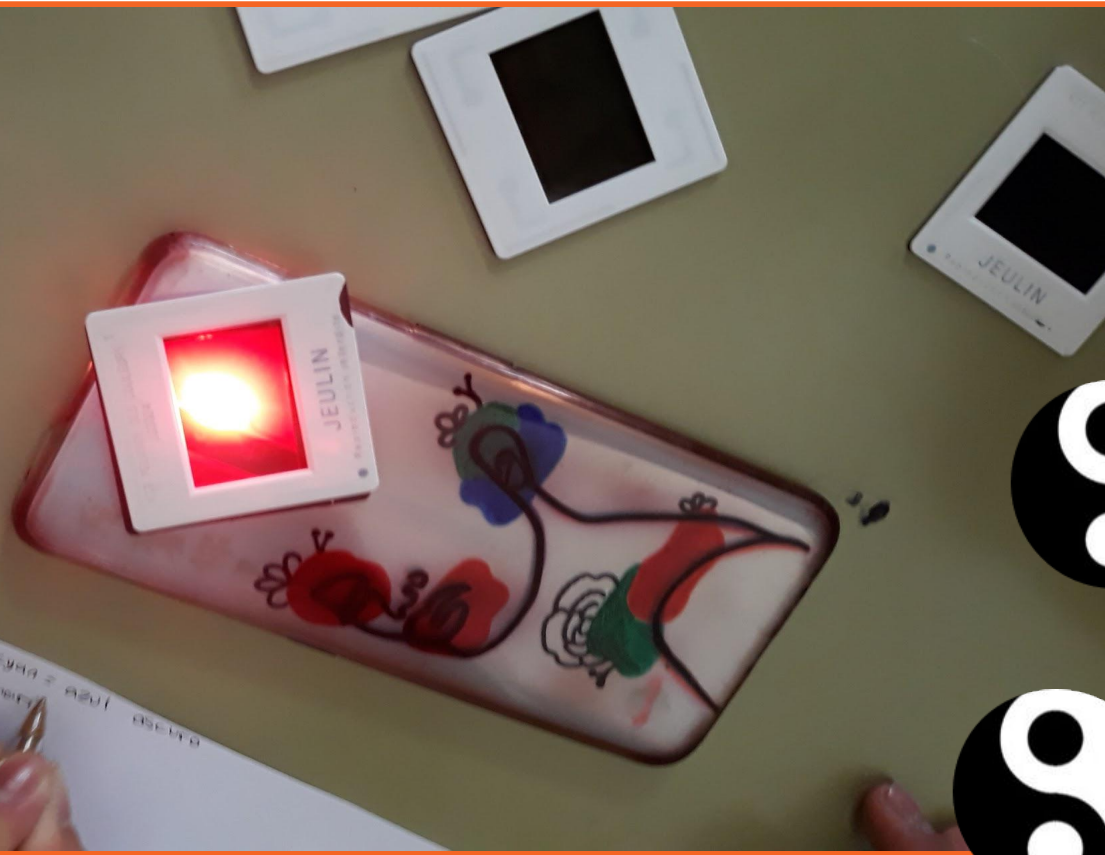
MAGENTA

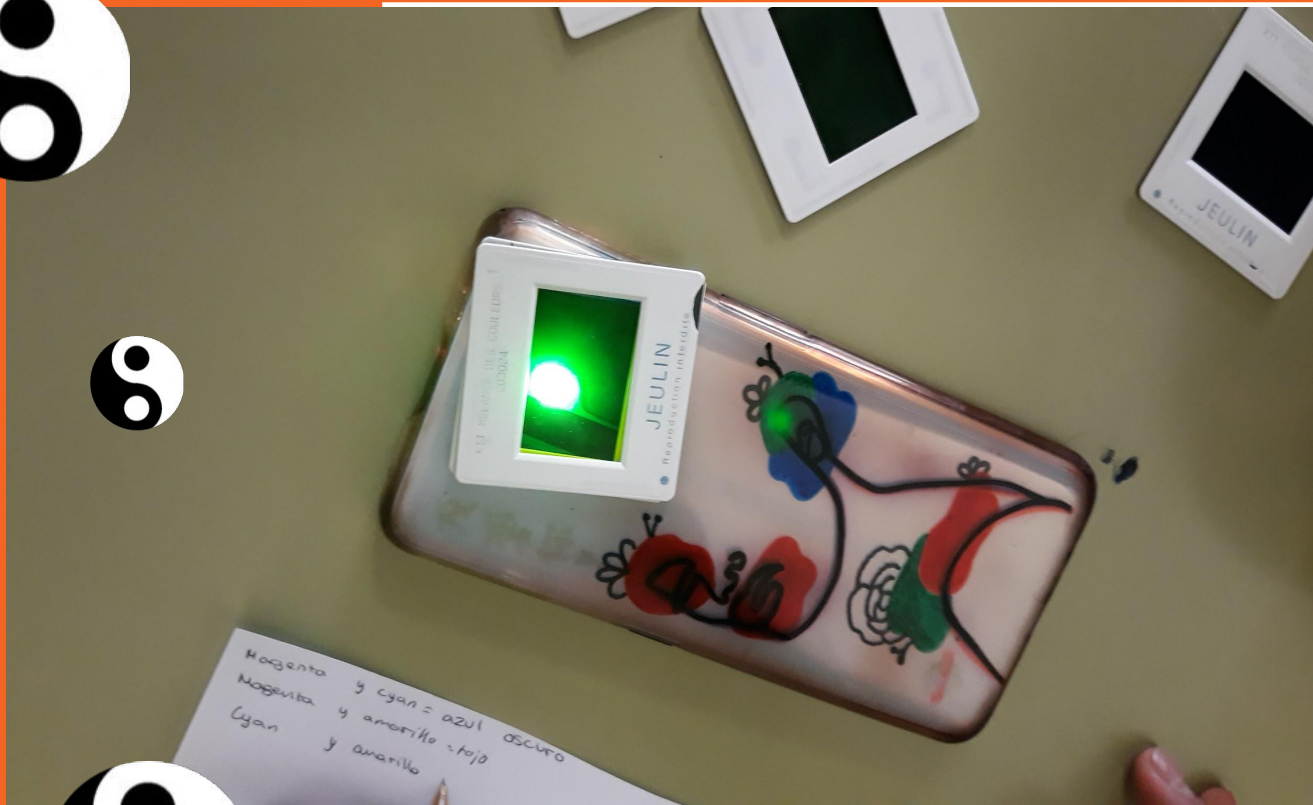
+

YELLOW

=

RED





CYAN
+
YELLOW
=
GREEN

Additive Color System RGB: **RED** - **GREEN** - **BLUE**

Magenta y cyan = azul oscuro
Magenta y amarillo = rojo
Cyan y amarillo verde
Verde
Azul y verde = cyan

} CMY

BLUE + **GREEN** = **CYAN**





RED
+
BLUE
=
MAGENTA





Additive Color System RGB:
RED—GREEN—BLUE

(WHITE)

Subtractive Color System CMY:
CYAN—MAGENTA—YELLOW

(BLACK)



Subtractive Color System CMY: **CYAN**—**MAGENTA**—**YELLOW**

Magenta y cyan = azul oscuro

Magenta y amarillo = rojo

Cyan y amarillo = verde

~~Magenta~~

Azul y verde = cyan

Verde y rojo = amarillo

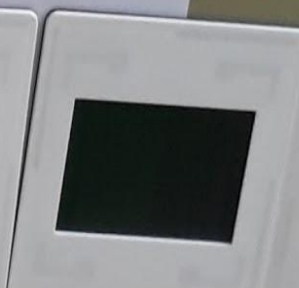
Rojo y azul = magenta

CMY = negro

Tends to **BLACK**

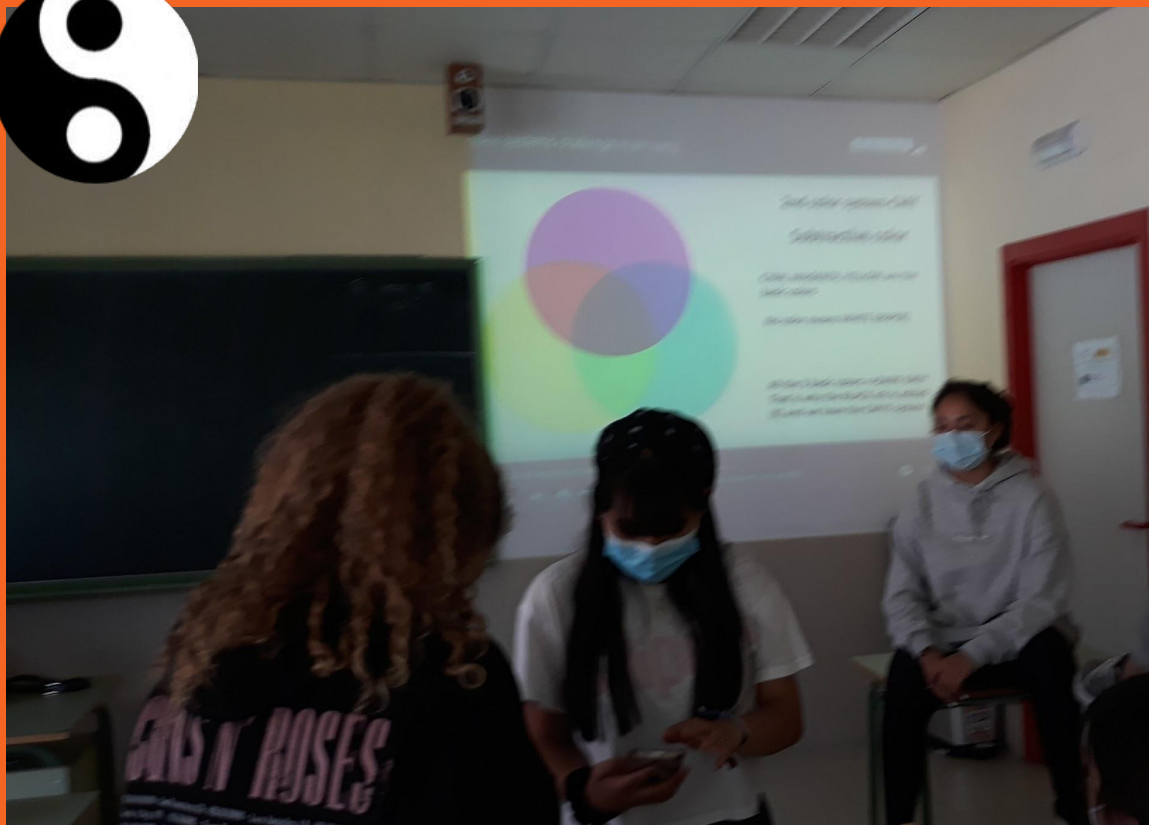
RGB = blanco

Tends to **WHITE**



Additive Color System RGB: **RED**—**GREEN**—**BLUE**





Great!
Many thanks to my students for their good job and to you for watching this presentation :D

Special thanks to Sara who has been leading the experiment during the session.



Teacher: Aranzazu