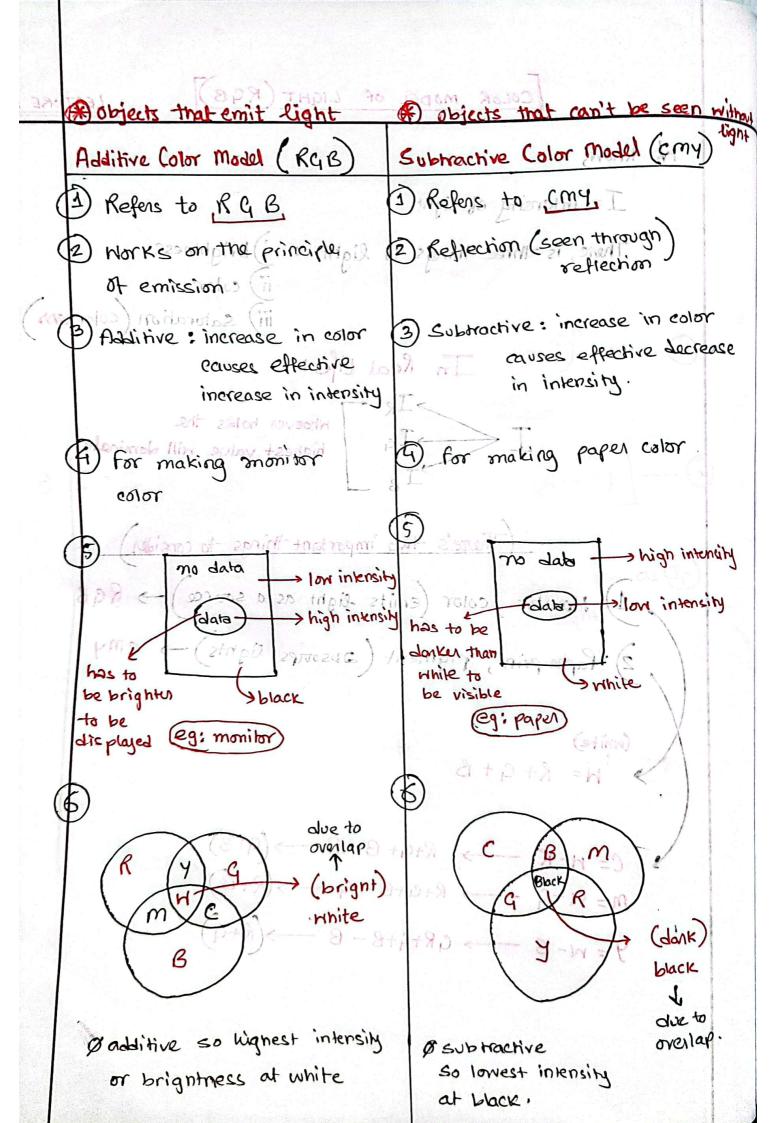
Additive Color Model (ROB) | Submounter Color grant sin I = intensity of light (1) Refore to 18 G B. There, is three things to light in i) brightness your ii) colonizations to Saturation (colorners) In Real Life: 1 = 2020109 highest value will dominate There's two important things to consider 1) Monitor, color (emits light as a source)-2) Paper print, pigment (2 bsourps lights). (mite) (malimorar 289) H= R+ G+B -> R+G+ B-R -> (G+B) - R+C+B-G - (R+B)

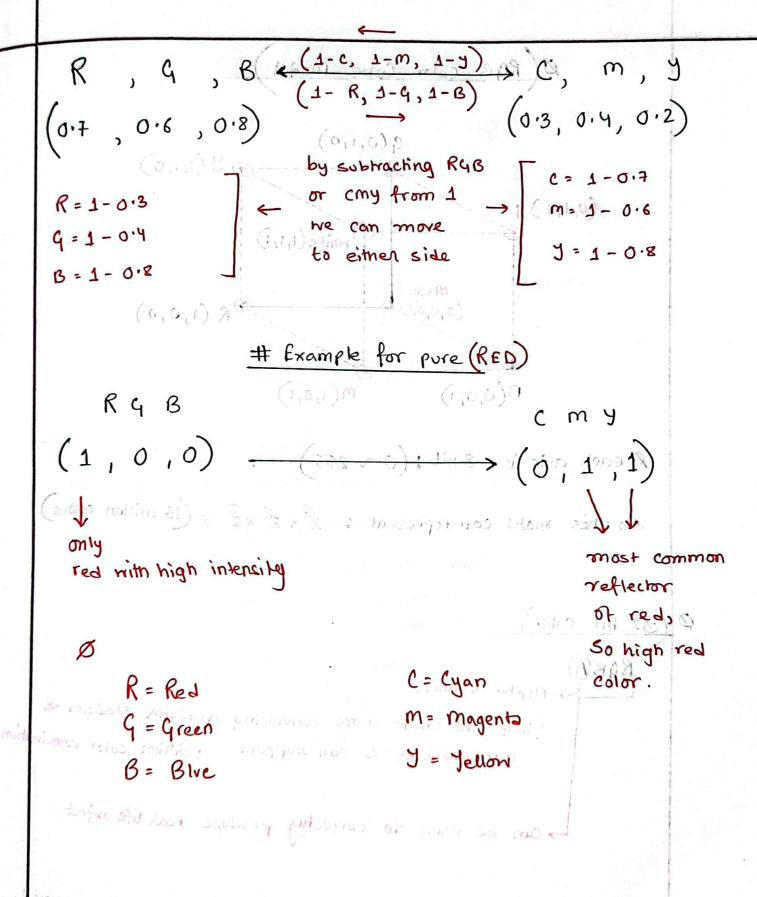
y = W-B -> R+9+B-B -> (R+9)

principle to be blocked as the blocked as

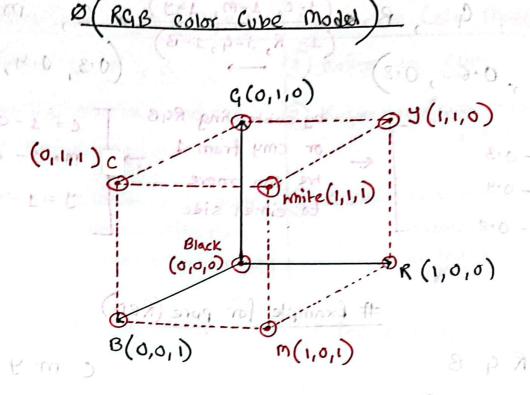
1-11-340

phonothic transport or switchers.





13 Mons, for only oute, in Lagoral opposites will be smithed



Ø each axis is 8 bit : (0 ~ 255)

So thes model can represent: 28 x 28 x 2 = (16 millon colors)

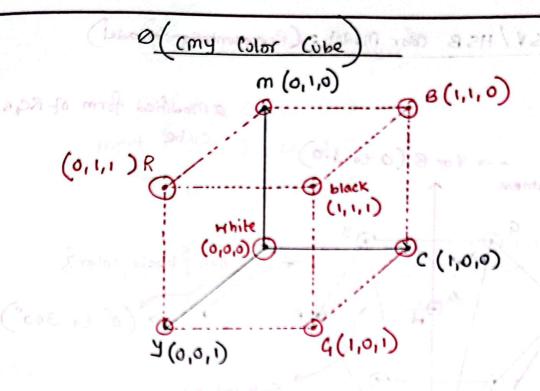
32 bit color

RGBA Alpha channel

(helps to create more convincing gradients, stadows & transponencies & can support 4 billion color combinations)

L, can be used to correctly produce real life object.

& Now, for cmy cube, the diagonal opposites will be switered.



(R,G,B) -> is theoretically a floating point value

- A) Good for hardwork
- But no one uses RGB model
 in software because it doesn't
 present us with the following

in bs & Brightness ? (310,300,300)

Ø the ?

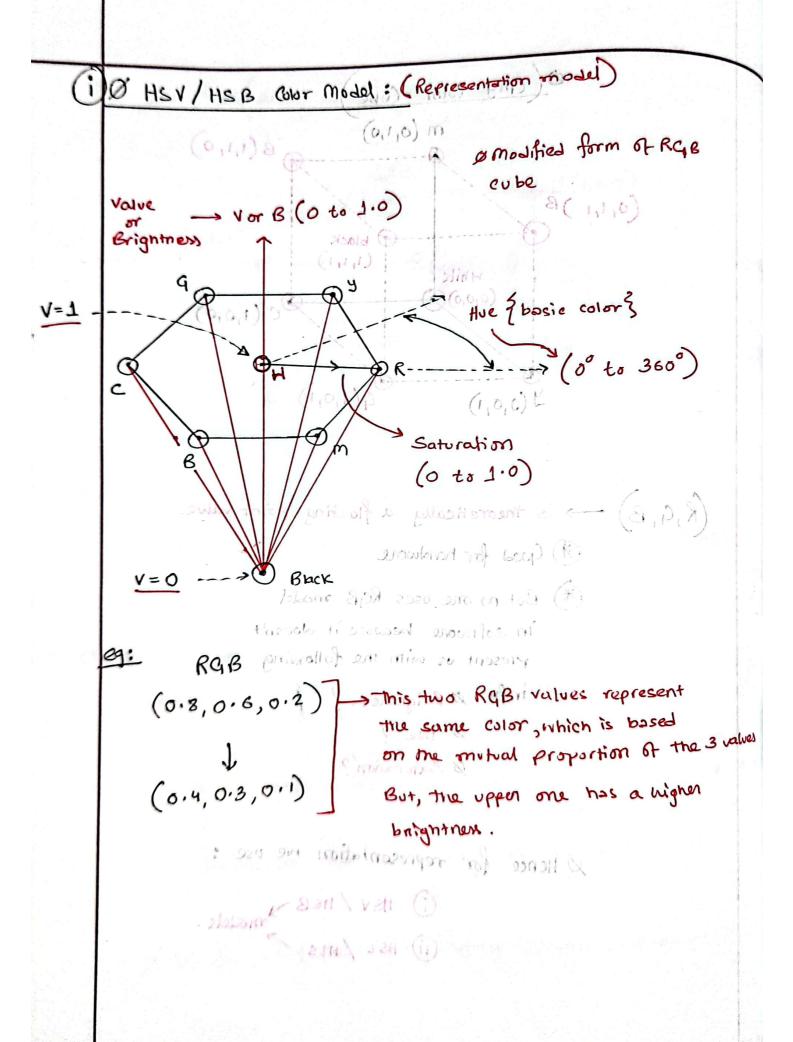
Ø Saturation?

Ø Hence for representation we use:

(1) HSV / HSB > models.

(1.0,8.0,0.0)

(i) HSL /HLS >



RGB to HSV: conversion)

input $\begin{cases} R: 0 \text{ to } 1.0 \\ q: 0 \text{ to } 1.0 \\ B: 0 \text{ to } 1.0 \\ B:$

Output

S: 0 to 1.0 → Saturation

V: 0 to 1.0 → Brightness.

where,

V = max (R, G, B) -> the value of V mill depend on the maximum in between R, G & B (

 $S = \frac{\max(RG,B) - \min(R,G,B)}{\max(R,G,B)}$

if (in R & nex) & 1 Re H = mill depend on dominance,

11 - 21 soin ent to 11 } (0> 11 too) ii 008 = + H + + 0

> for code (P.T.O)→ # Next Lecture (17)