HRAVIND 2019102014		Lech Color Ima	use 15 ge Processin (9		
Colox as	a DPhysical pher Radiance: T Lumunaince Brightness:	no monon [sp Total amount Annount of perceived for Subjective	som sonace	Observer [condela/ma]	Seun Flux Luni Int	
	Illuminance	:[Zumensl	m ^A]		Olaect	. - .
	2) Physiopsychol -> Human nisu	ogical pher	omenon	Marcon S (blue shows they best a Respond to concept	avelenth of li	ght
Illw	nunations		U . W			
	Relative ene	gy & Ware	Jungth Gne sens	sibivity cusins		
Relie	chance: Rel.En waveleng	F				
	Int	ensiby = 0- a	199 m Red + ()-587*Green t	0-144* Blue	
			<u> </u>	ighted function		ve-

> Pexception of color is entirely additional contained/appendent on wavelengths

Primary lolors -Adutive Cololos scheme Les Other colors are obtained by adding R.G.B.

On combination can produce lighter colors offering good contract

No of colors one can differenciate based on number of primary color receptors Prexised colors.

Determined by nature of light reflected from an object

f (Light, Object)

Subtractive Color Schemes

-> Used in painting, painting > Stasts with white, colored ink "subtracti" available color

Example of subtractive schance

Addetive: Think of as light. Subtraction Think of as color bigments

Example & Magentas White-Goren White -Rea Blue + Grean

Passive displays:
Absent light

We use CMYR- Needed to porture deepdook -> RGB are already clark > Layering is even dooker > So less possibility of lighter colors -> CM/K are lighter, so overs most color range

AGB color space: - f(x,y)= a1R+2G+ 2B By G By
- Pexceptually non-uniform [Take 2 aboses and interpolate blow than
1/2 y - Chromotiaty Diagram
Jununance + two most distinctive chromunarie comparatis
a sometiments all pure mono chromatic color
3 fells to separate luminarce and situation
(x,y) $(x+y+z)$ $(x+y+z)$ Relative luminance
Chromaticity Cooxdinate Exactly matches luminate intensity knows
Mc Adam Filinsess (000) => 1/2 for bether
Region of chromaticity diagram that contains all colors which are indistinguishabler from color at center of ellipse > Contour sesperants just noticeable diff of chromaticity
Coloria segments just noticeable diff of chromaticity
all-Lall same 5120.
La Can cover large range in grean
-> Shouldn't use RGB his seeing small diff. So prefer CIE color space
> Whitening teams from to commot to square [normalisation]
(OE Lab Color space)