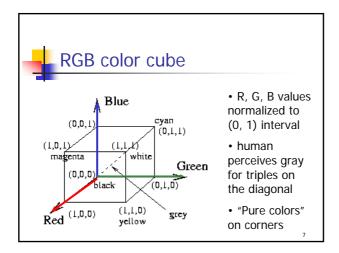
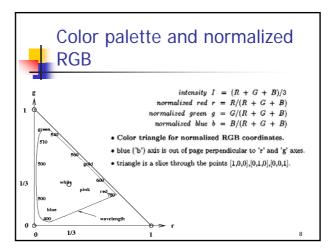
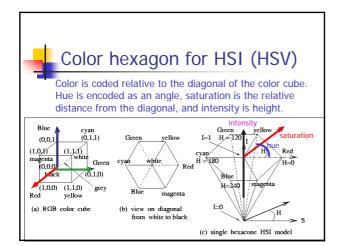


(Com	paring	Color	Codes	
		RGB	CMY	HSI	
	RED	(255, 0, 0)	(0,255,255)	(0.0 , 1.0, 255)	
	YELLOW	(255,255, 0)	(0, 0,255)	(1.05, 1.0, 255)	
		(100,100, 50)	(155,155,205)	(1.05, 0.5, 100)	
	GREEN	(0,255, 0)	(255, 0,255)	(2.09, 1.0, 255)	
	BLUE	(0, 0,255)	(255,255, 0)	(4.19, 1.0, 255)	
	WHITE	(255,255,255)	(0, 0, 0)	(-1.0, 0.0, 255)	
	GREY	(192,192,192) (127,127,127) (63, 63, 63) 		(-1.0, 0.0, 192) (-1.0, 0.0, 127) (-1.0, 0.0, 63)	
	BLACK	(0, 0, 0)	(255,255,255)	(-1.0, 0.0, 0)	6

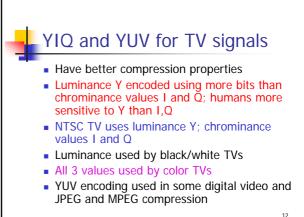


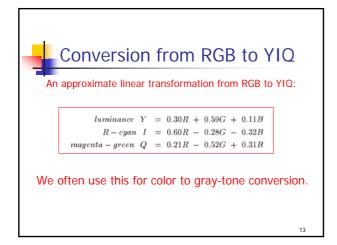


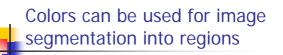






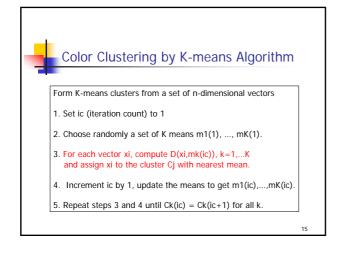


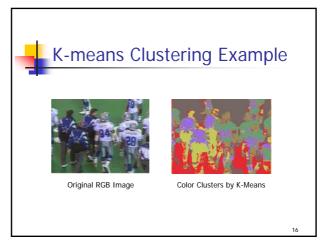


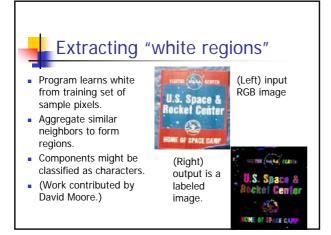


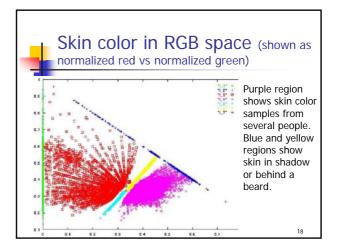
- Can cluster on color values and pixel locations
- Can use connected components and an approximate color criteria to find regions
- Can train an algorithm to look for certain colored regions – for example, skin color

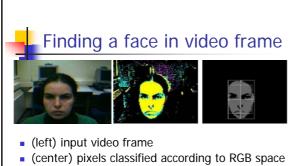
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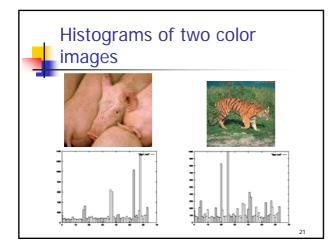


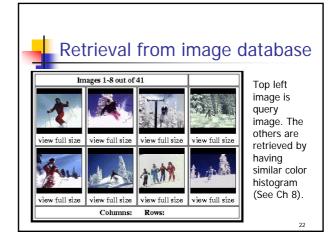


 (right) largest connected component with aspect similar to a face (all work contributed by Vera Bakic)

Color histograms can represent an image

- Histogram is fast and easy to compute.
- Size can easily be normalized so that different image histograms can be compared.
- Can match color histograms for database query or classification.





How to make a color histogram

- Make 3 histograms and concatenate them
- Create a single pseudo color between 0 and 255 by using 3 bits of R, 3 bits of G and 2 bits of B (which bits?)
- Can normalize histogram to hold frequencies so that bins total 1.0

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