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Photo manifulation

> Size > Color > Exposure > X-pro II

Feature extraction

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manufacture of the second seco

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> Edges > oriented gradients > segments

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Mid-Level vision · Image (>) Image Pancramas At 1 19 and 1 tolt and should be · Image (> world material of transford Alies to set -> Multi-view stereo -> Structure from motion -> Structured light 1000 -> LIDAR · Image () Time -> optical flow -> Time lapse shirt lotals? adapted to the good of the speed of High-level wision! . Senantics - Image classification - object detection - Segmentation Applications - Retrival -> Robots - Super- resolution - Game Playing CV techniques > Image Processing > Feature extraction + ML 6 Deep learning

1 1 3

chp 2	1	/
eyespots: a photoreceptive protein (the simp	lest	type of eyes)
> photosensitive proteins with no other sur	ound	ing
Structure		
no nerves, brain or processing		
- very bus a cuity these forms dold gritter	anipla. I	of and of
Pit eyes: Photo sensitive cells in Pits		_
> Block Some light > Very Common		
- more information about where light direction		
- very simple - low acuity		
	4.11.4.	
Starting to the start of the st	1/4	0.3397 0
(focusing)	1	
viewing a focusing)	<u></u>	47 hel?
1. distant object 2. near obje > nearly parallel soil tobs > Diverging		
light roys orition of rays ori		
-> Flattened lens for weak -> Round lens	Pr	Strang
reflection trab on Si 5 will reflection to	21	S- 5- W) =
syld Caria Scil Joil well con	A	ع لاحل انعكاد
	2710	VALUE &
man and the state of the state		:1 0

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peripheral V	* low acuity * low	v Perception of Colo
> lots of rods	* good at night	
Fixation	al eye movement	
- Reseptors adjust	st, lose sensitivity	over time stated
> Ege KeePs moving	y to expose new parts	to light
		The state of the s
micro saccades	ocular drift	microtremors
-Short Unear	- Constant 5low	- ting vibration
movement	novement	> Synchronized
		between eyes
		14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1	1 1
	nglia transmit info	
	them	
	ifferent kinds of pho	toreceptors
sensitive to differe	ent things	
m Cels	P Cells	
depth	Color	
movement	Shape	
orientation	details	

Reflected Incident Percent Reflectance spectral spectral of Skin Surface لوم الجد بعد لوس الحلاسات انعكاس الضور الإطاءة Tringles ess proversest Photoreceptors and was light wavelenghts: Rods 1 Peak around 498mann Cones: Short 1 4 420 nm blue > in poss Medium in 530 nm green long: n 560 nm red to se poss rating 1 G RGB 15 a Cube Hue; what color Saturation; how much color Value 2 how bright

77

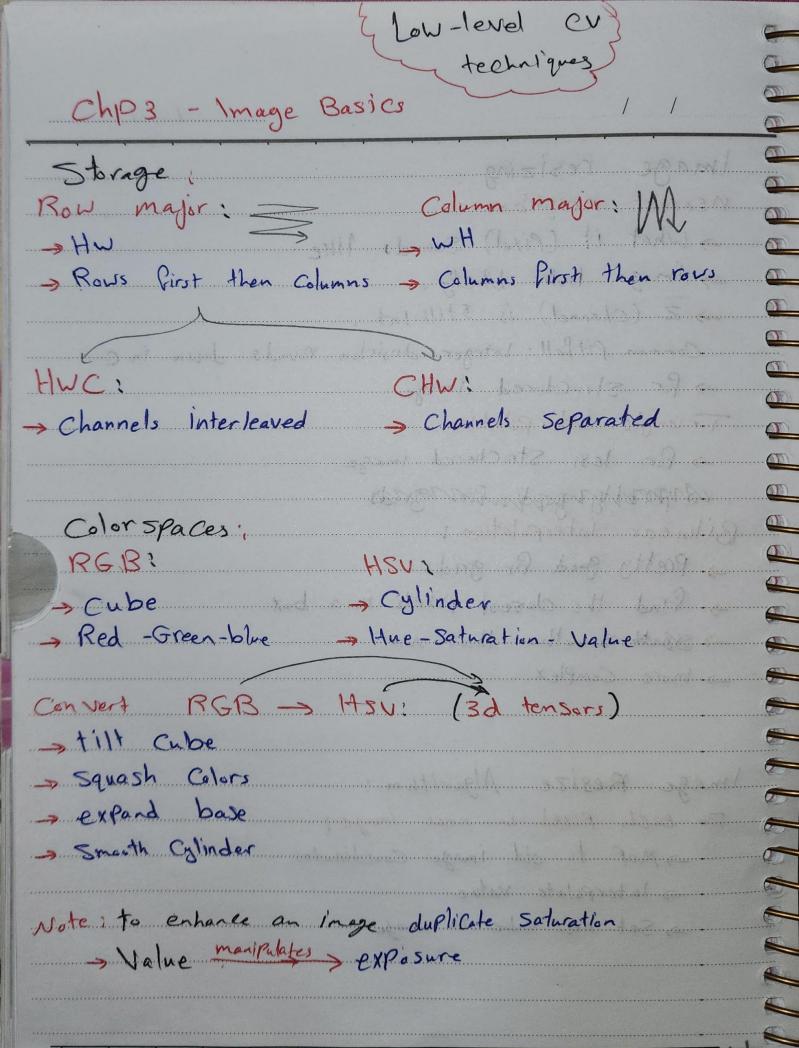


Image resizing.	in h
nearest neighbor	
nearest neighbor	
> what it (Pixel) Sounds like	
mage looks blocky	mall timber and the
> Z (Channel) is Still lint	
Common Pitfall: Integer division round	La down in c
-> for Structured image	1.3746
	s Charnels Interior
-> For less Structured image	
inprody godnion grats	
Bilinear Interpolation	Cotorspaces.
- Pretty good for grids	
, find the closest pixels in a box	9405
-> South Smoother than NN	
-> more Complex	
Consort CEV With	ADA AMARA
	and a dist
1 M1- M	
Image Resize Algorithm:	
For each pixel in new image?	manufactured and Continue
Map to old image Coordinates	
Interpolate value	
Set new value in image	
The state of the s	
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