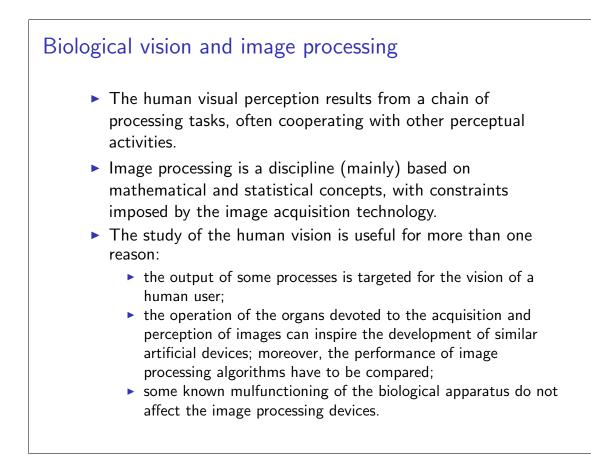
## Vision

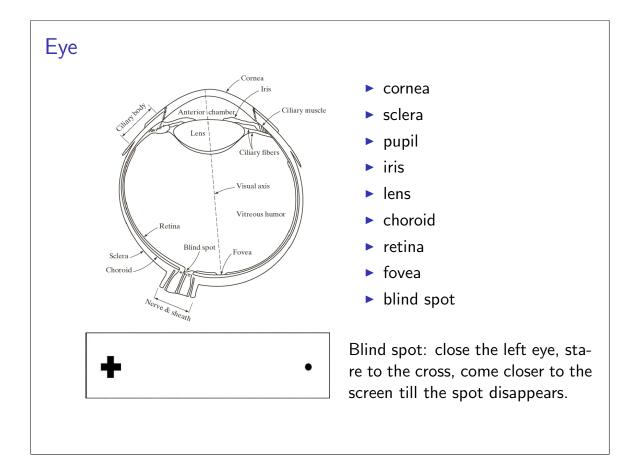
Stefano Ferrari

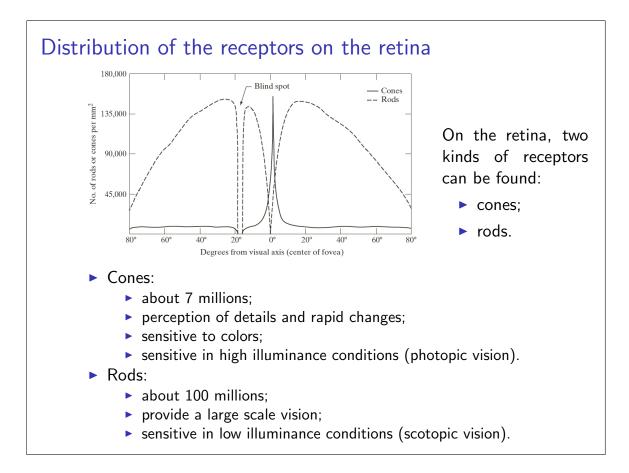
Università degli Studi di Milano stefano.ferrari@unimi.it

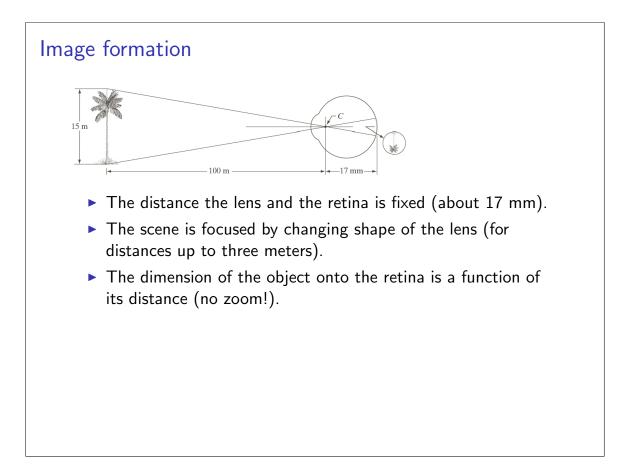
Methods for Image processing

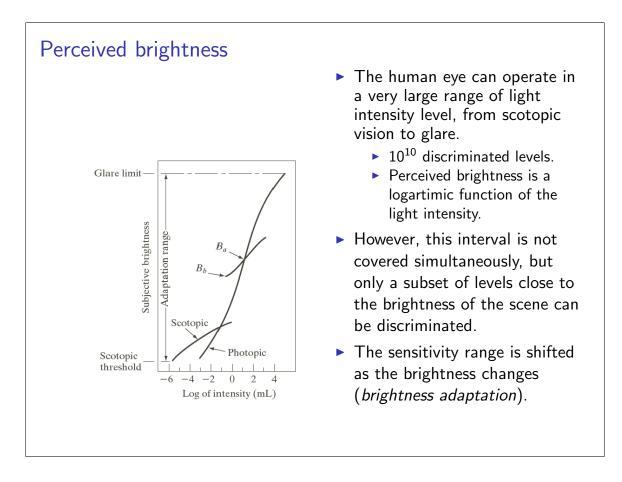
academic year 2014-2015

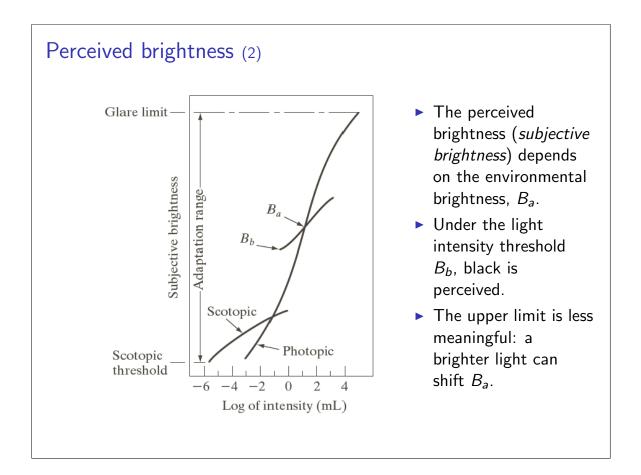


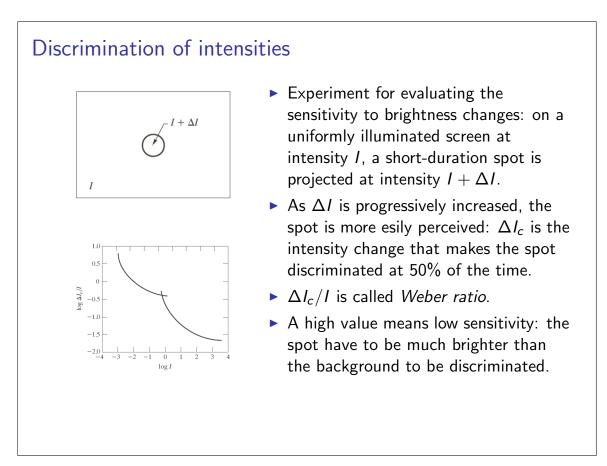










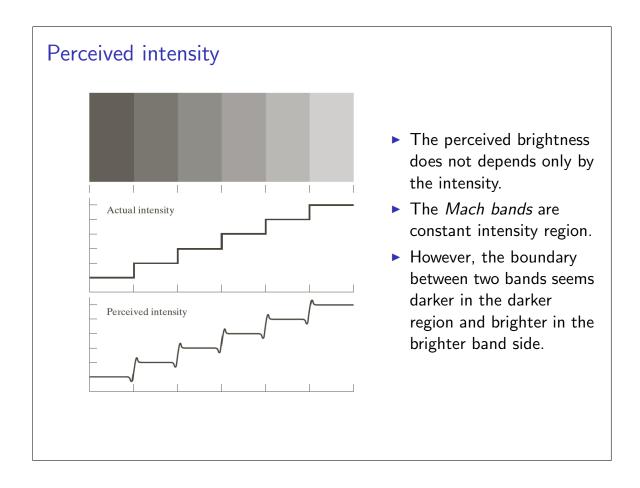


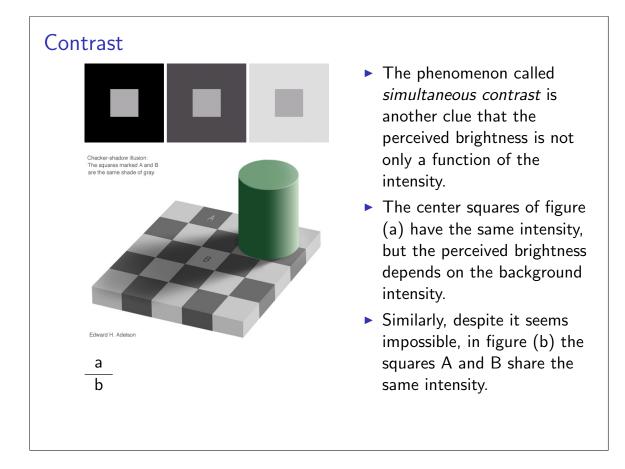
## Discrimination of intensities (2)

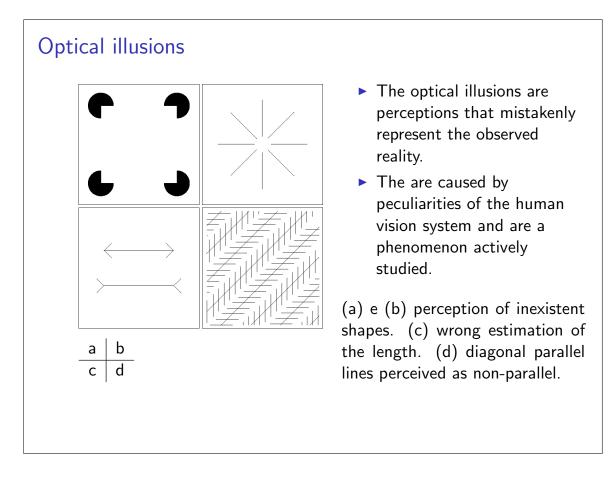


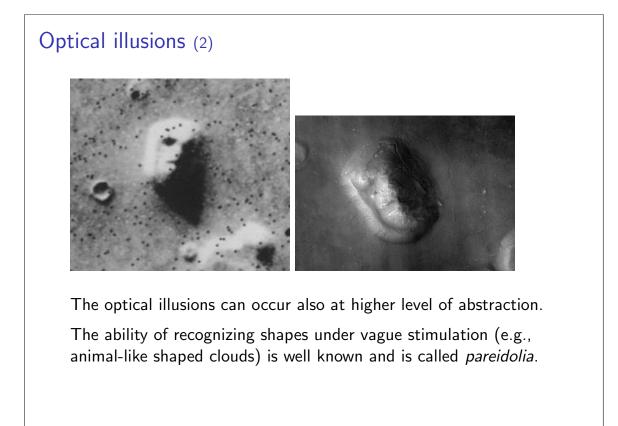
- The eye can discriminate few (10-25) shades with respect to the environmental brightness.
- However, this does not means that all the images can be reported using few shades: maybe *locally* they can be enough, but the brightness of the scene can change.

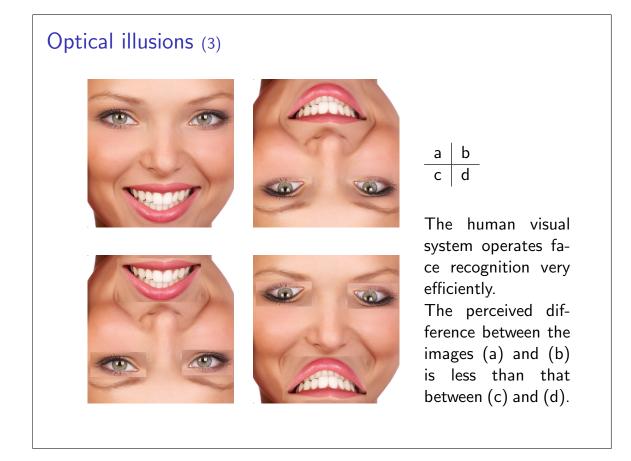
The same image at 256 (a) and 24 (b) gray levels. In the regions where the intensity changes slowly (sky and clouds), the lack of intermediate shades is apparent.

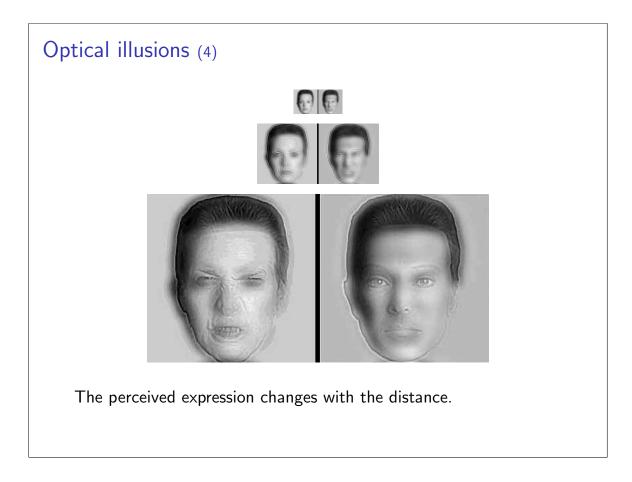


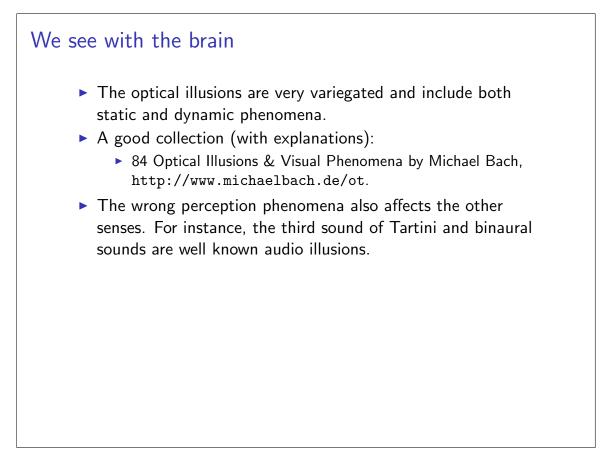












## Homeworks and suggested readings DIP, Section 2.1 pp. 35–43 Mirage with parabolic mirrors http://www.ap.smu.ca/demos/index.php?option=com\_content&view=article&id=122&Itemid=85 Autostereograms http://en.wikipedia.org/wiki/Autostereogram