



Russell Abraham



Mastering Light

**Introduction by Clifton Stanley Lemon
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Mastery, Painting and Photography



“Camera”- Latin for ...?

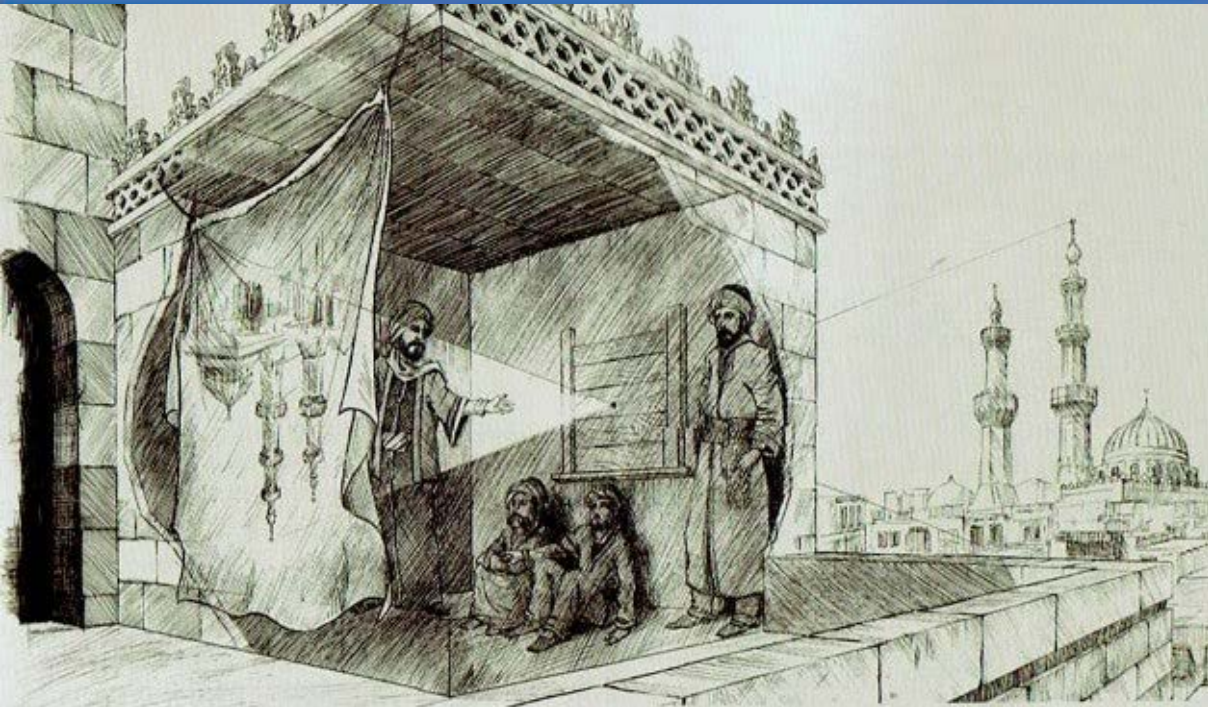


NOT Double dromedary!

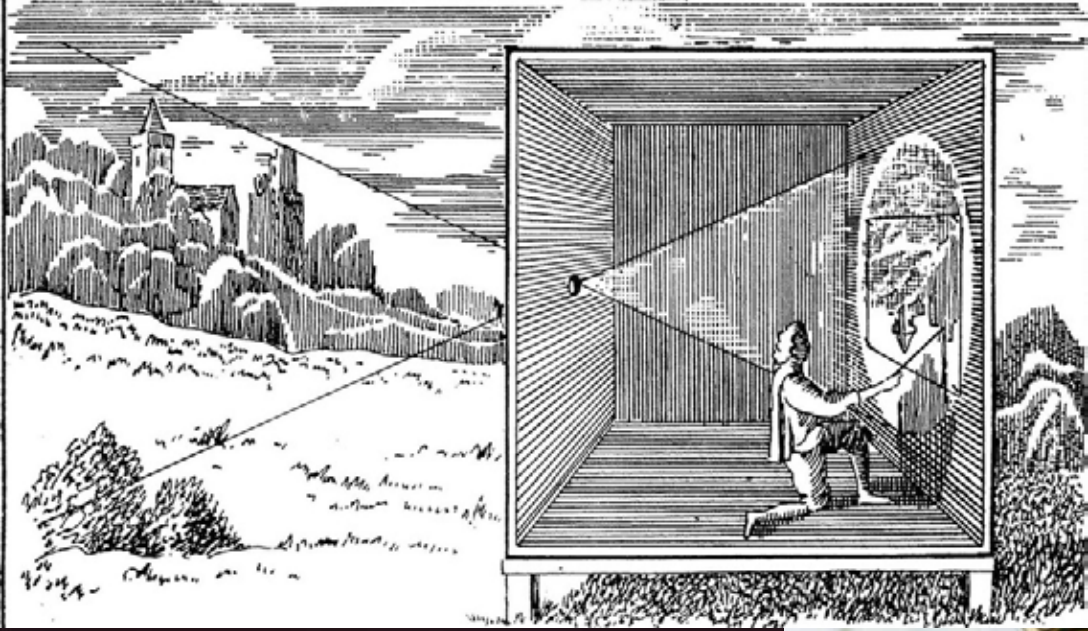


Bicameral legislature- Two “Chambers” or houses

Early Camera Obscura



From DaVinci codex



Commonly used in painting in 1500s



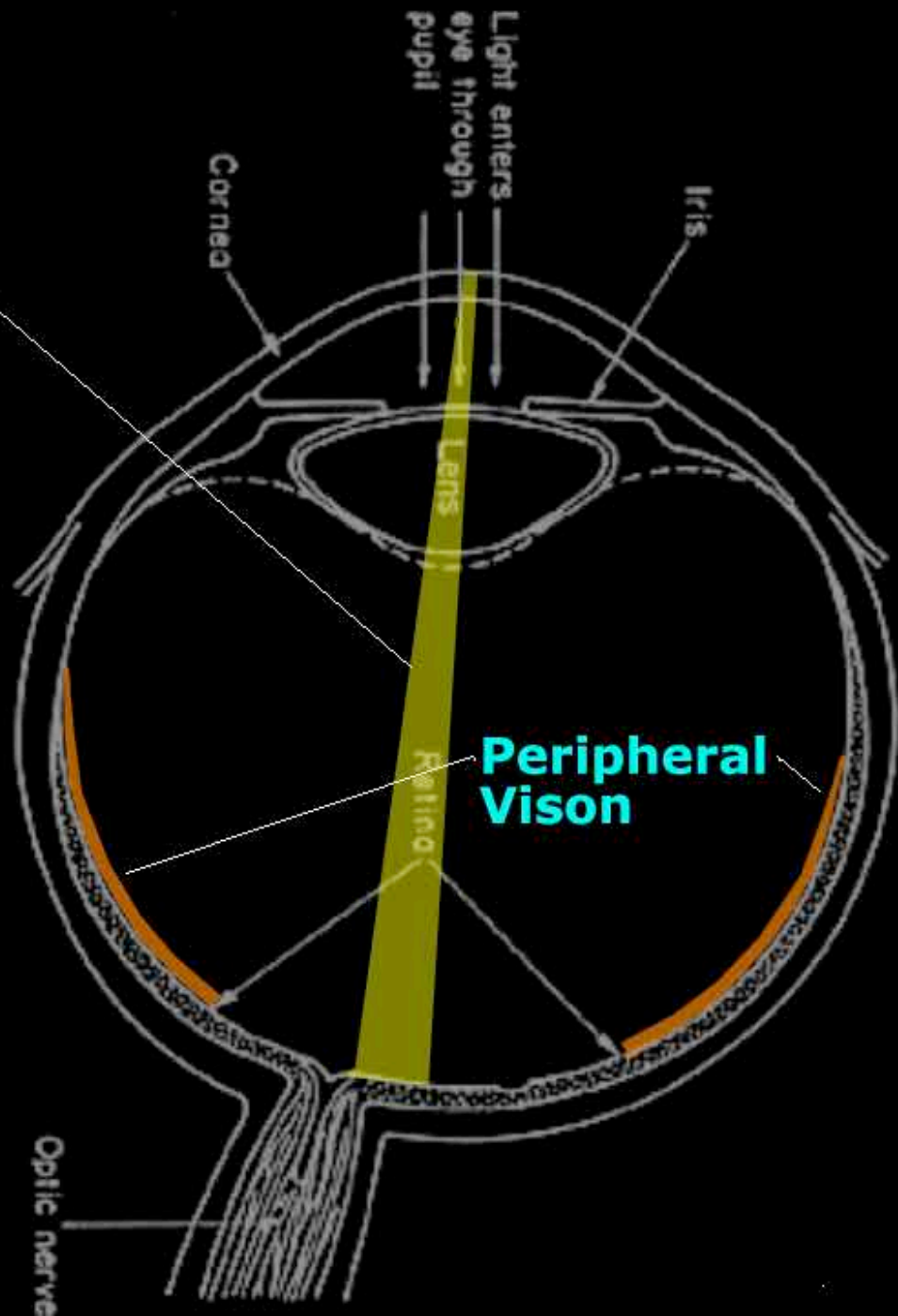
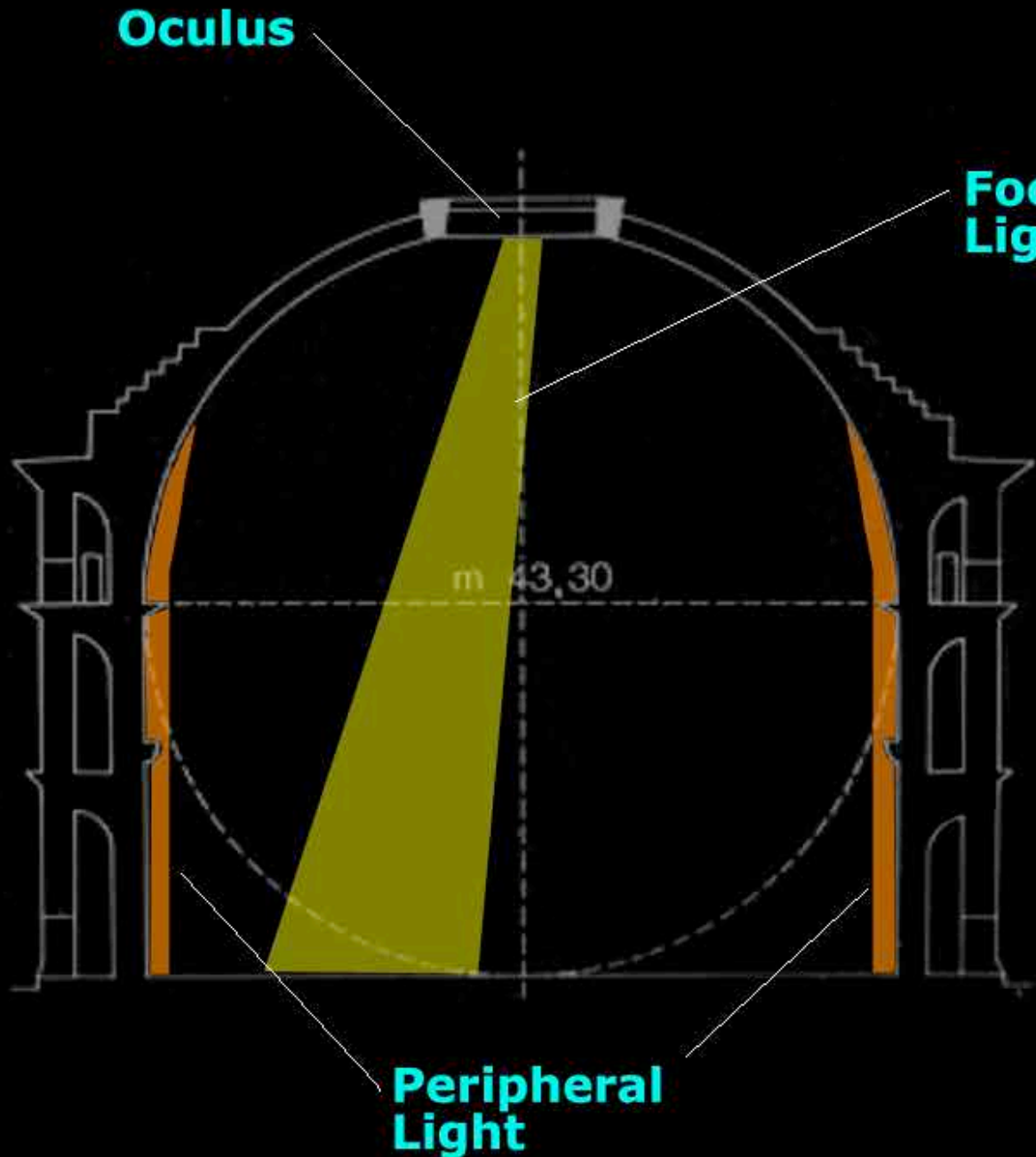


First daguerreotype,
1837



Work of Clifton Royal Adams,
My grandfather,
Pioneering color photographer
for National Geographic in the
1920s & 30s

Similar geometry at different scales





Foveal Vision



"Normal" Collapsed Vision

80 CRI

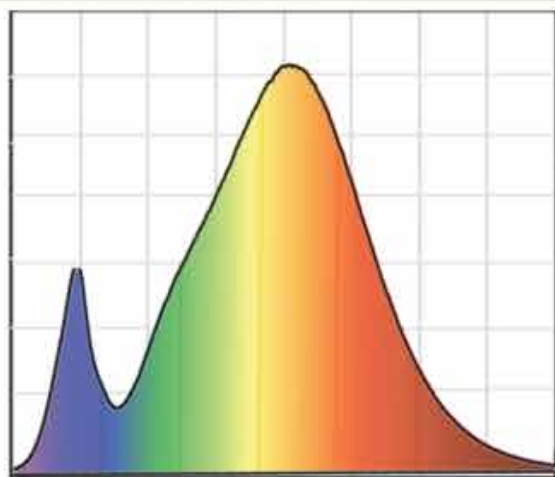
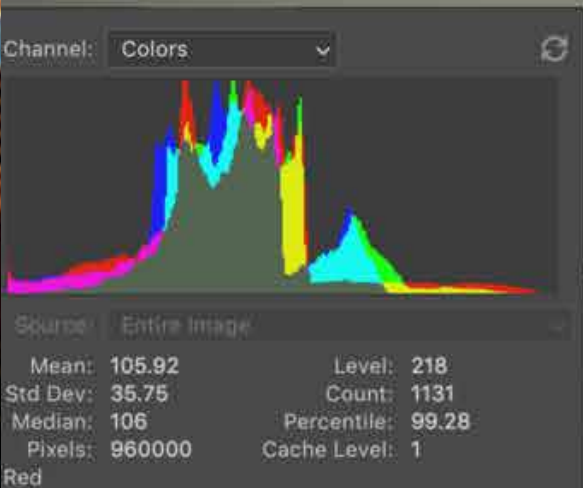


95 CRI



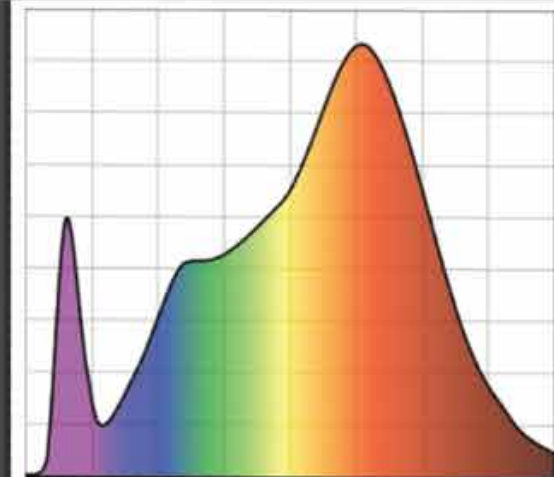
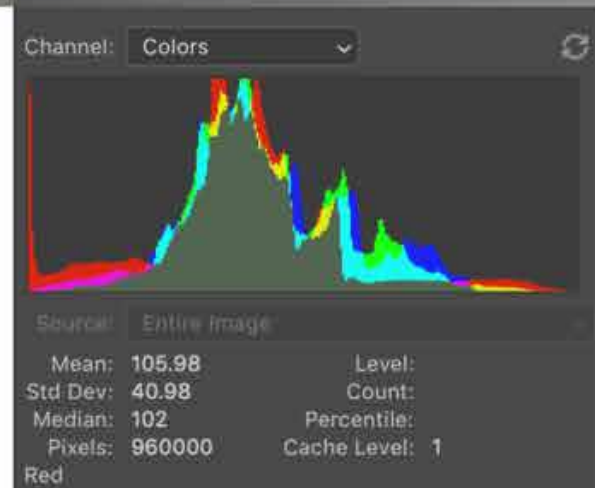
Histogram

SPD

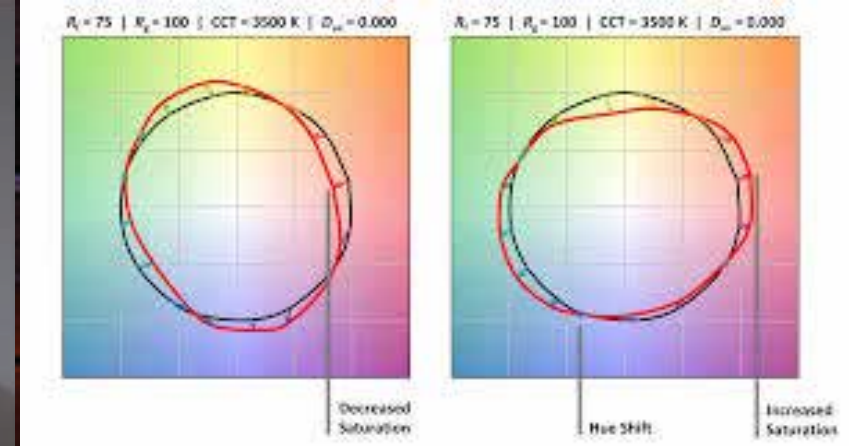


Histogram

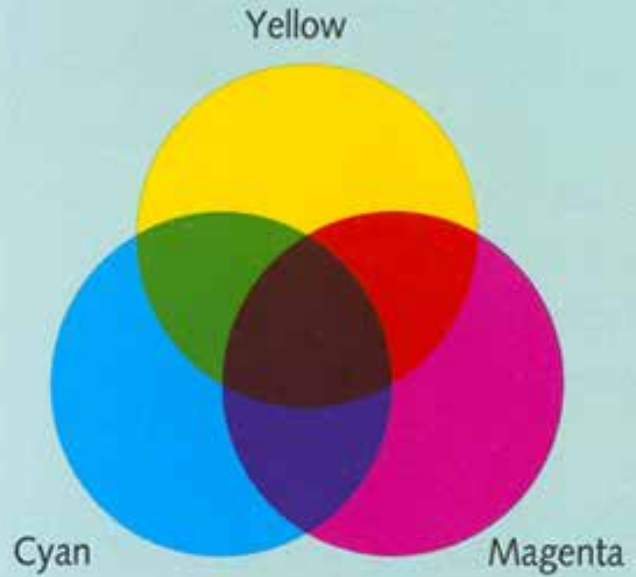
SPD



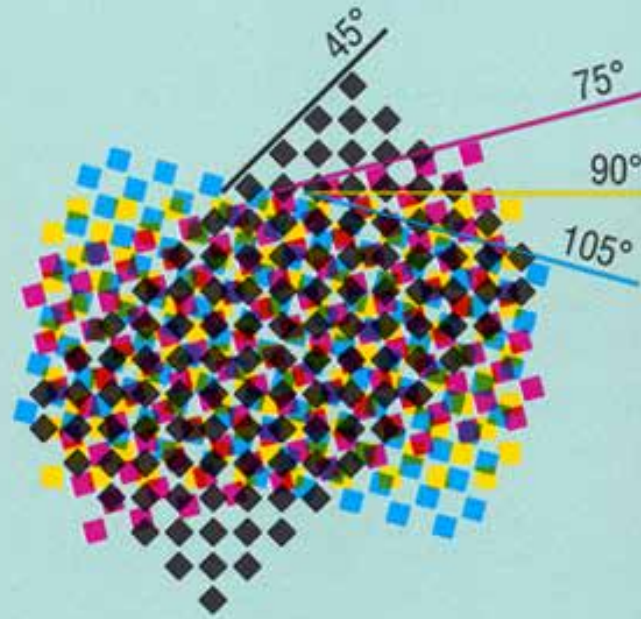
Gamut warning in Photoshop and gamut graphs from TM30



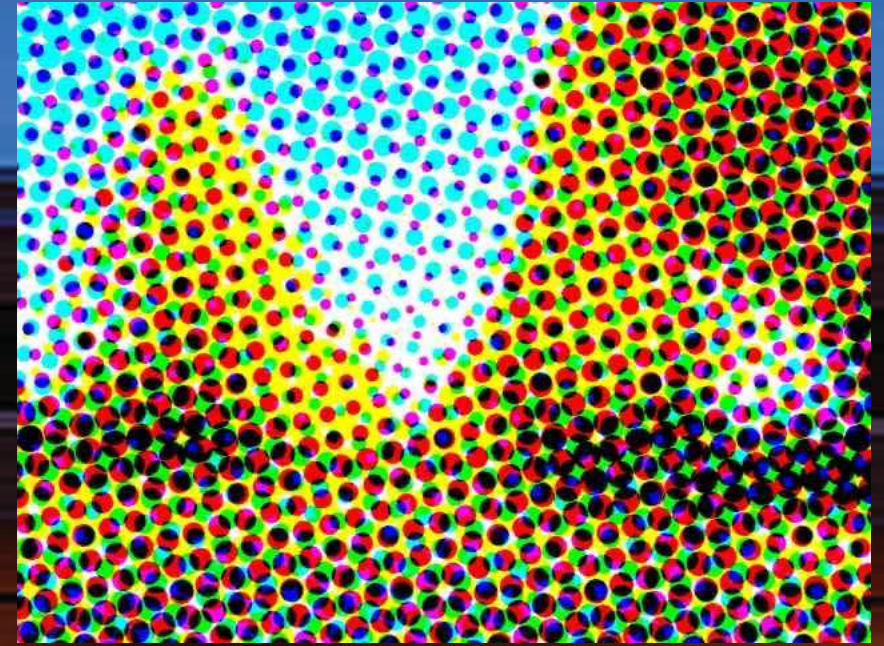
Subtractive colour



Cyan, magenta and yellow filters or pigments subtract varying quantities of red, green and blue from white light to produce a limited gamut of spectral colours.



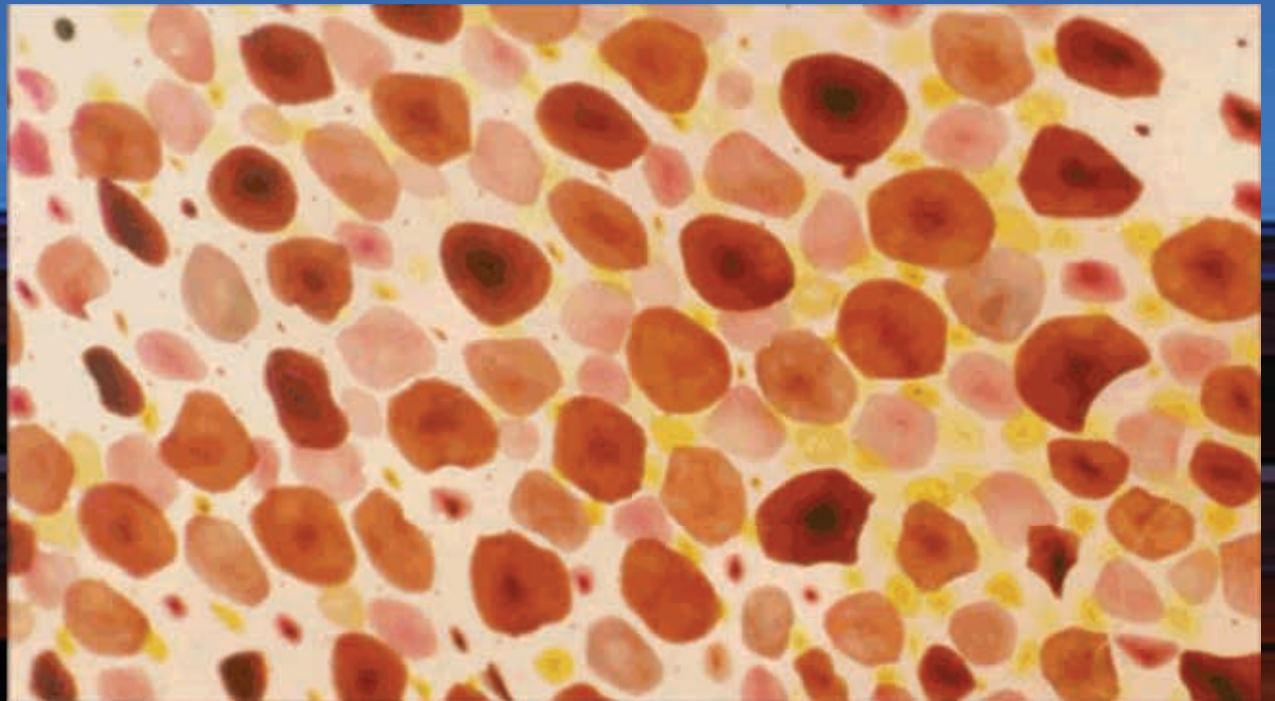
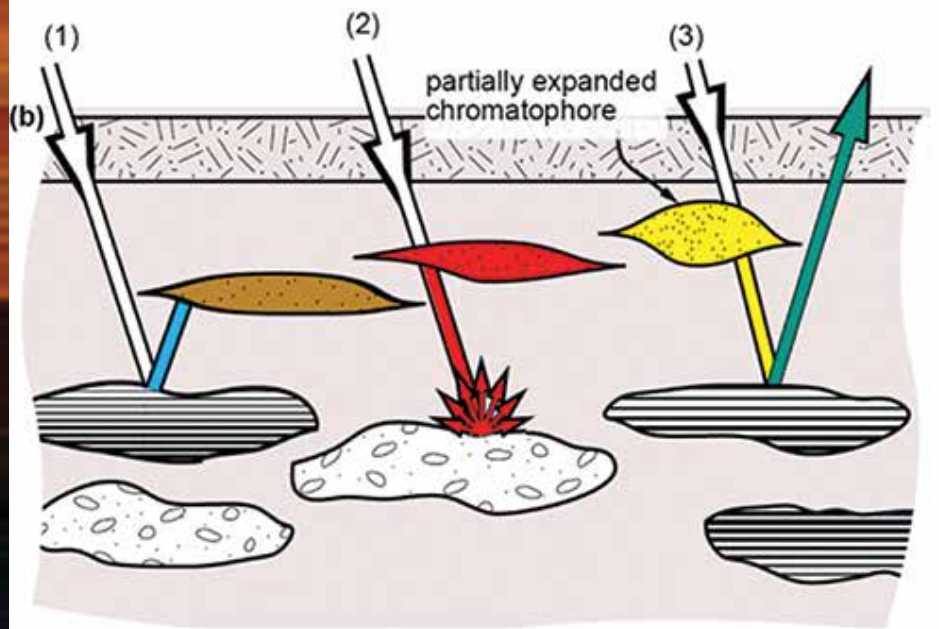
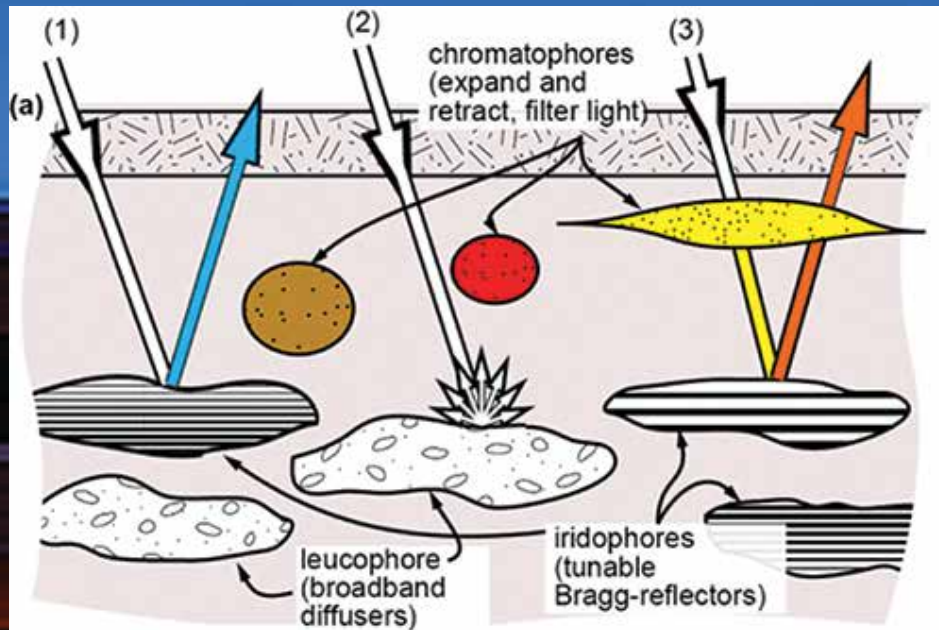
Halftone colour printing normally employs four overlapping grids of dots (CMYK), which subtract differing amounts of RGB light in proportion with dot size.



Offset printing technology with transparent inks and reflective “subtractive” color, uses a matrix of dots

Alta





The cuttlefish, master of camouflage, has skin with a variable matrix of different colored dots embedded in different levels of the skin that activate to reproduce the conditions of its environment

LED monitor also work with light-emitting matrices of dots

