



https://github.com/krittinunt/ComputerVersion



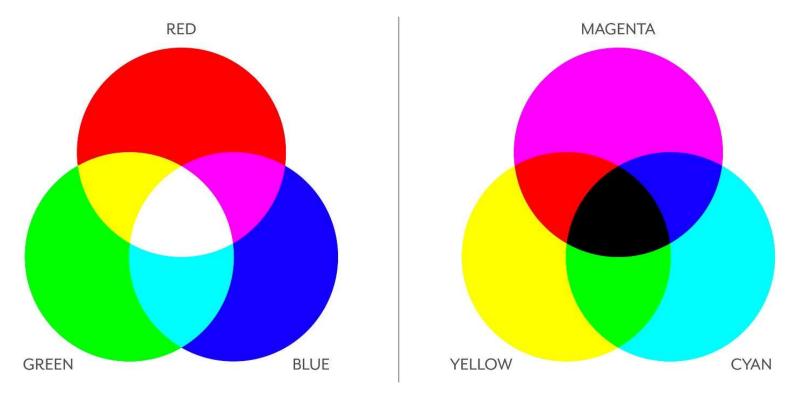
Color theory

PRIMARY COLOURS





Color theory



Additive Color

Subtractive Color







RGB vs **CMYK** В R C M G Additive colours Subtract colours Vibrant tones Cool tones Used by monitors for displays Only way to print media 3 channels: 4 channels: Cyan Magenta Red Blue Yellow Black Green Smaller file sizes Easier to colour treat



RGB
Colours are produced in monitors & other screens.



Colours are produced in printing process & desktop printers.

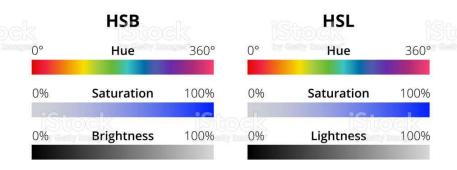
CMYK



SPOT COLOUR

offset printing method that uses individual links for each colour. Generally uses Pantone Matching System.

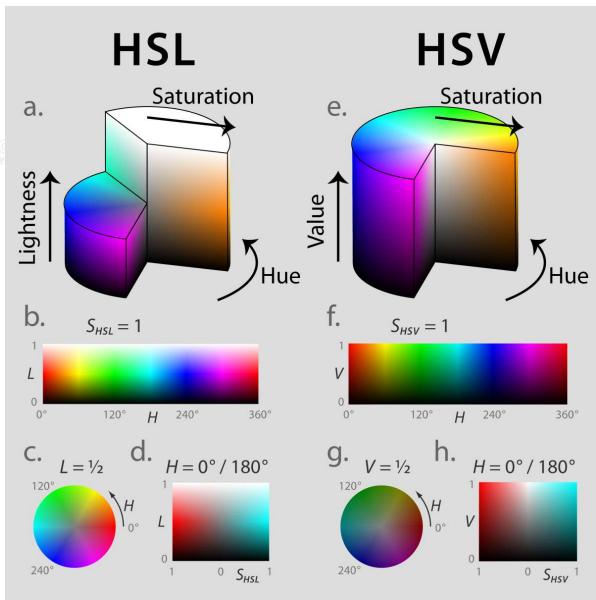




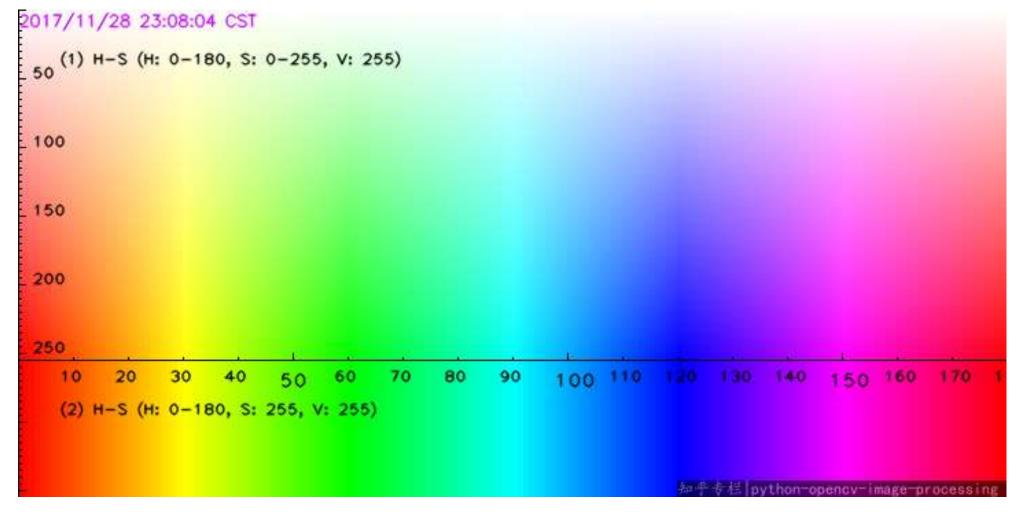
Hue : เนื้อสี

Saturation : ความอิ่มของสี

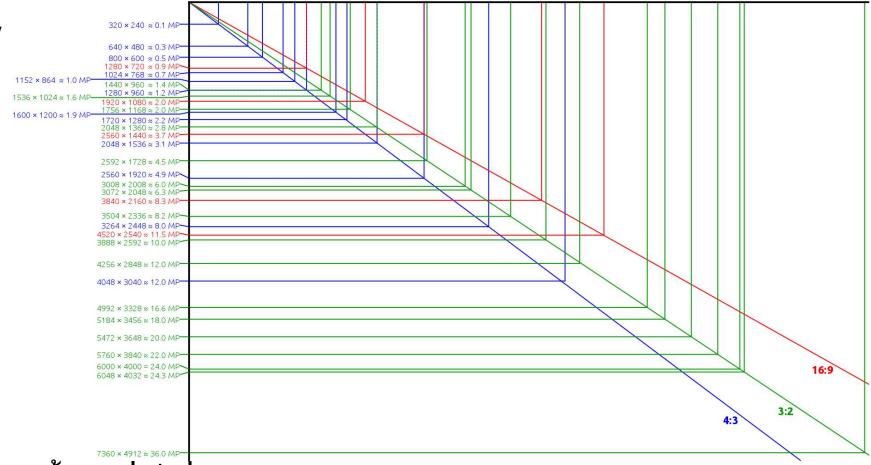
Value : ความสว่าง









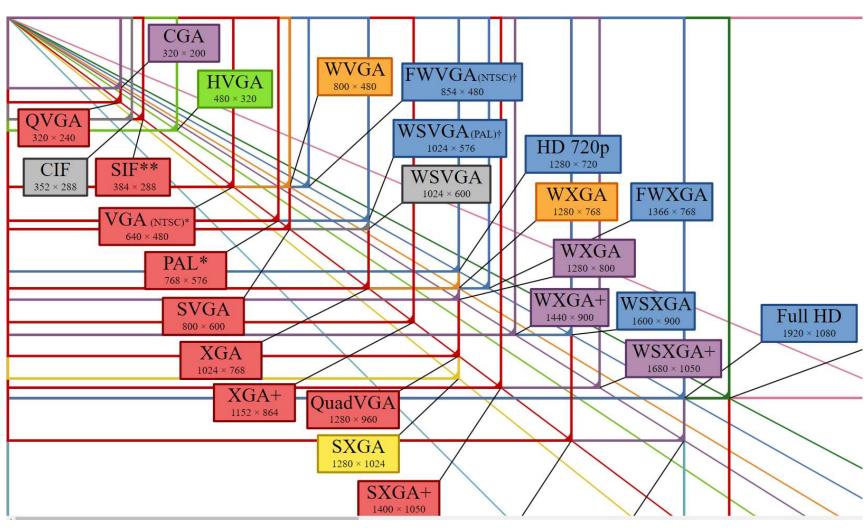


Pixel คือ หน่วยพื้นฐานที่เล็กที่สุดของภาพดิจิตอล

ใน 1 Pixel จะเป็นสีหนึ่งสีใดเพียงสีเดียวเท่านั้นจะมีสีอื่นไม่ได้

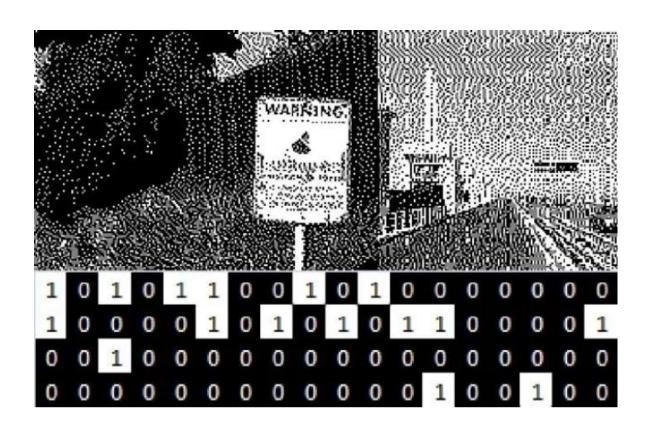


Display resolution





Binary image





Grayscale image



Gray = 0.299xR + 0.587xG + 0.114xB

R, G, B มีขนาด 8 bits แทนความเข้มสี แดง เขียว น้ำเงิน โดยจะมีค่าระหว่าง 0-255

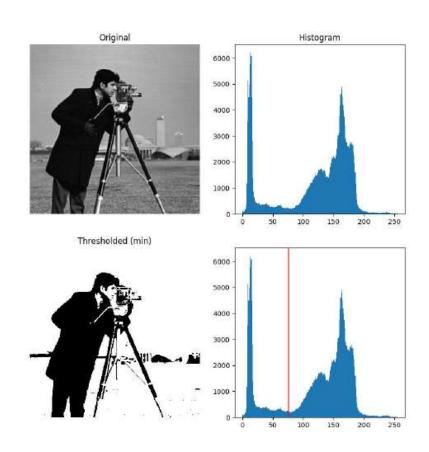


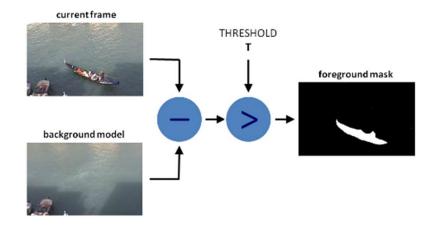
RGB image





Thresholding

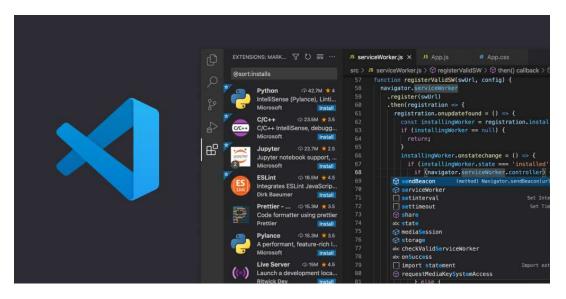














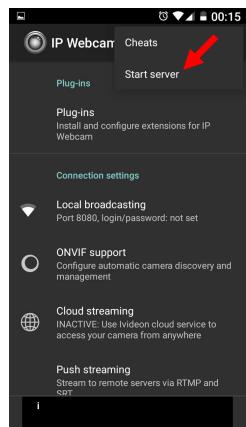


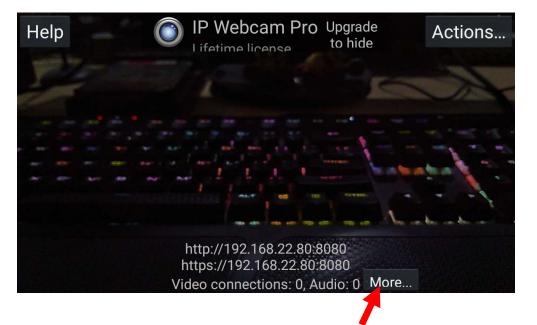


IP CAM



BeautyPlus -กล้องถ่าย...







IP CAM

