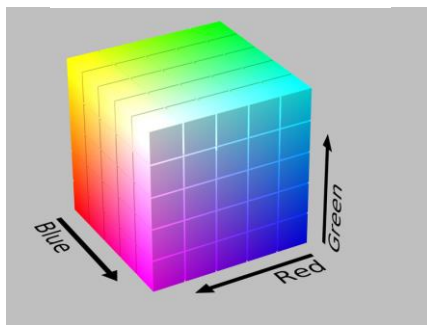


Athabasca Vacuum Residue reaction

Thermal cracking – Set-point 435 °C

- Image analyses in HSI (Hue/Saturation/Intensity) color-space

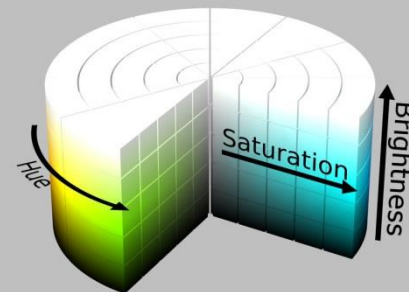
RGB color map



Cartesian coordinates

R, G, and B intensities $\in [0, 255]$

HSI color map



Cylindrical coordinates

Hue as angular coordinate $\in]-\pi, \pi]$

Saturation as radial coordinate $\in [0, 1]$

Brightness Intensity $\in [0, 255]$

- Brightness (vertical coordinate) and color (polar coordinates on a Colorwheel) can be analyzed separately