

Convex Hull

Convexity

- Color Space

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$$U = 2*X + 1*Y$$

❖ Represent paints by planar points

$$X = (10, 35)$$

$$Y = (16, 20)$$

$$Z = (07, 15)$$

❖ Mixing ratio for U(12, 30)

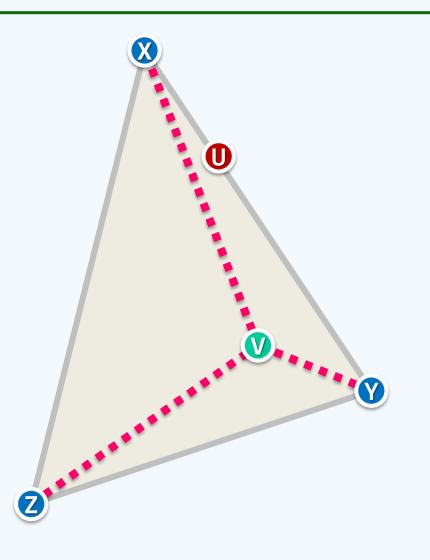
= X : Y

= 1/|XU| : 1/|YU|

= 2:1

❖U can be produced from X and Y iff

it lies on the segment XY



$$V = 1*X + 3*Y + 1*Z$$

- ❖ Mixing ratio for V(13, 22)
 - = X : Y : Z
 - $= S_{VYZ} : S_{VZX} : S_{VXY}$
 - = 33/2 : 99/2 : 33/2
 - = 1:3:1
- ❖ V can be produced from X, Y and Z iff
 it lies in the triangle XYZ

