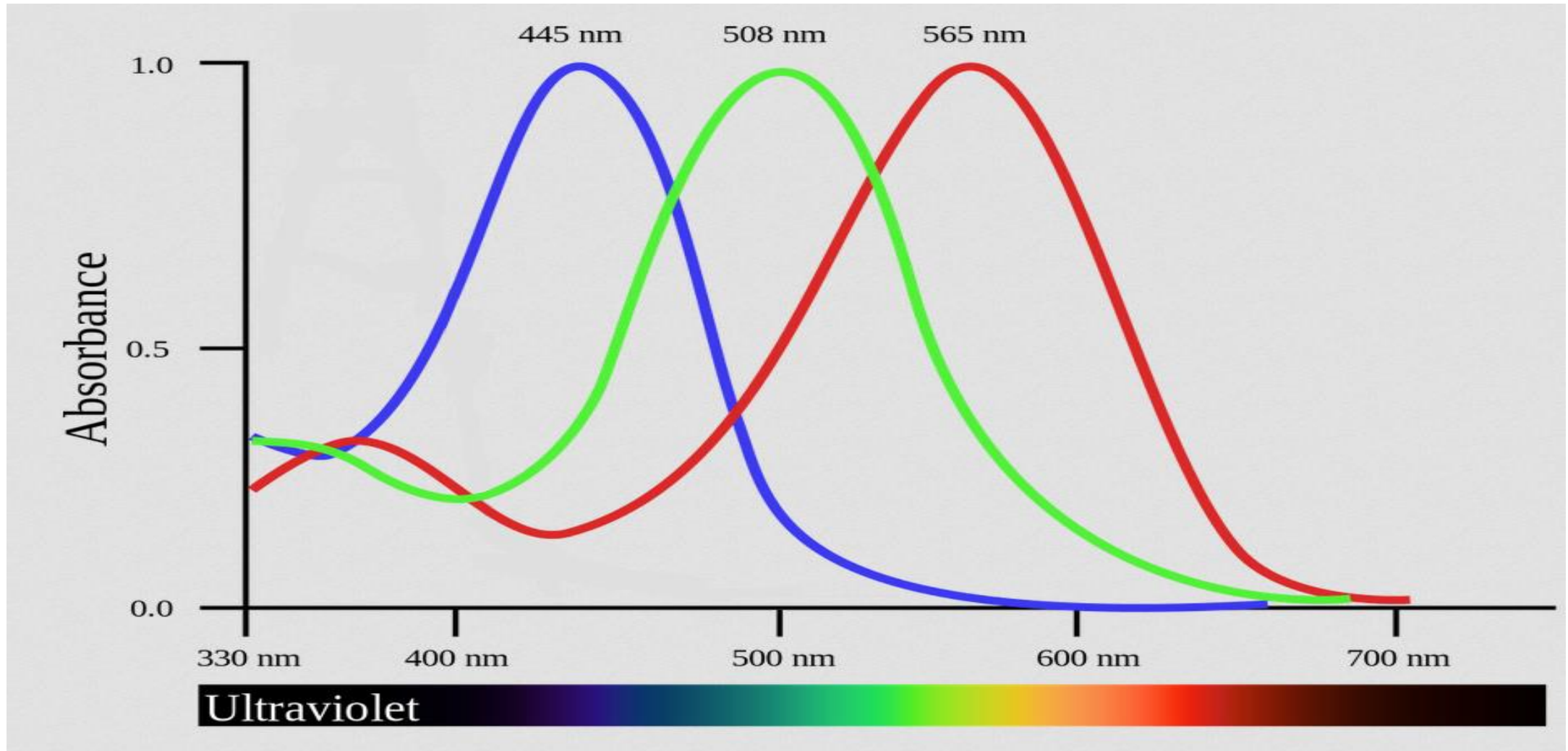# Numbers, Shapes, Colours & Sounds

A look at creating shapes, colours and sounds

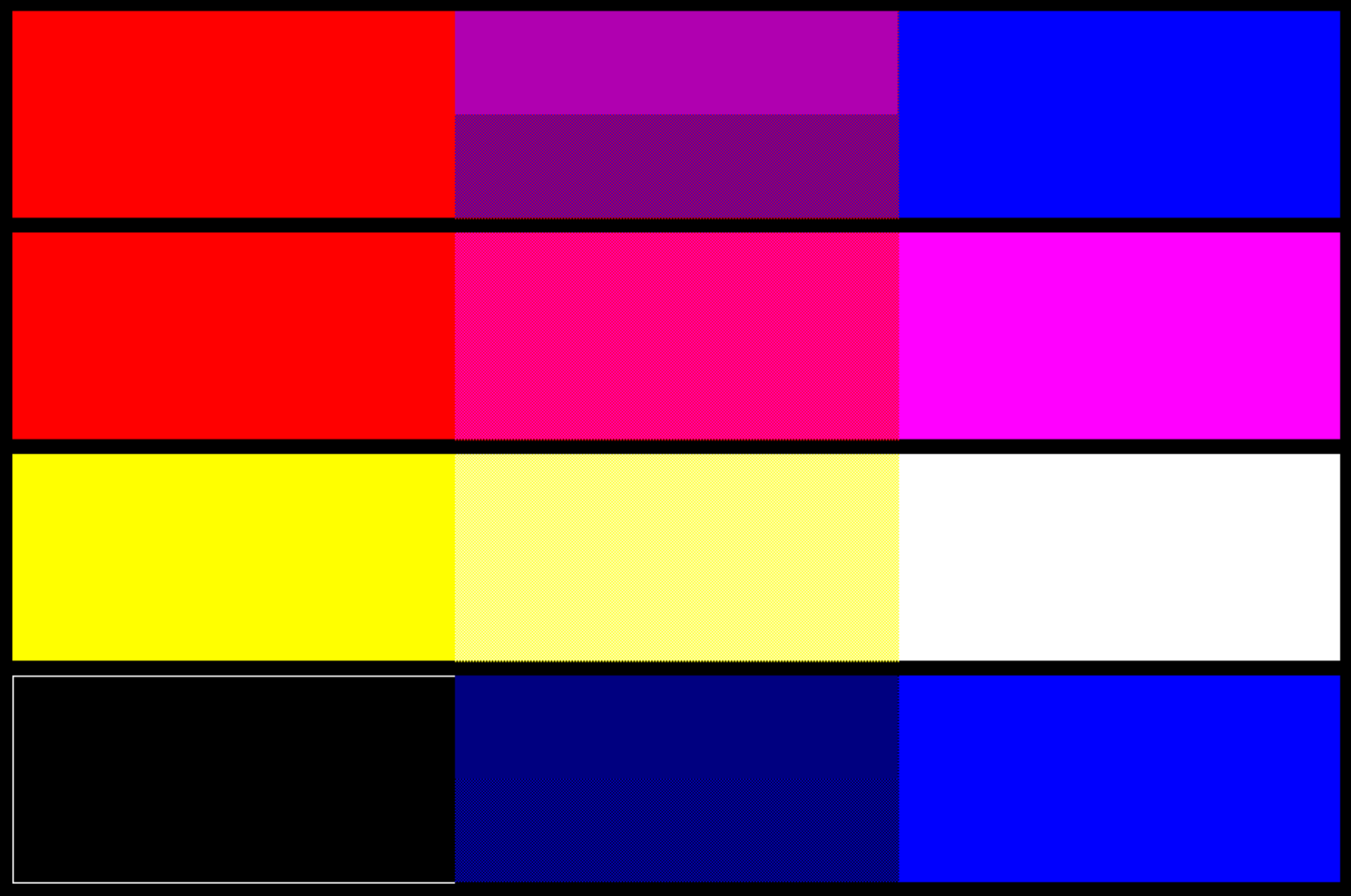# The Colour Responses of Cones in the Retina

Don't Do This!

The quick brown fox jumps over the lazy dog

The quick brown fox jumps over the lazy dog

The quick brown fox jumps over the lazy dog
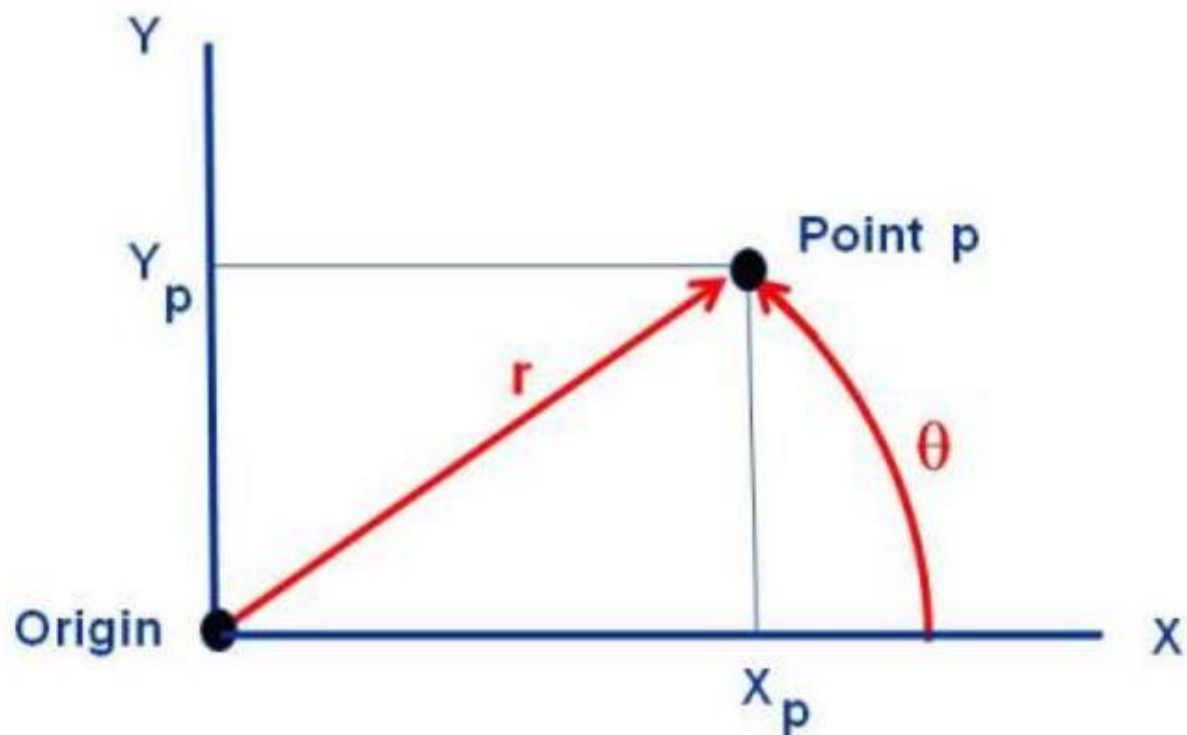
Using Blue Difference To Advantage

Clashing Colours

See how the red seems to float in front of the blue
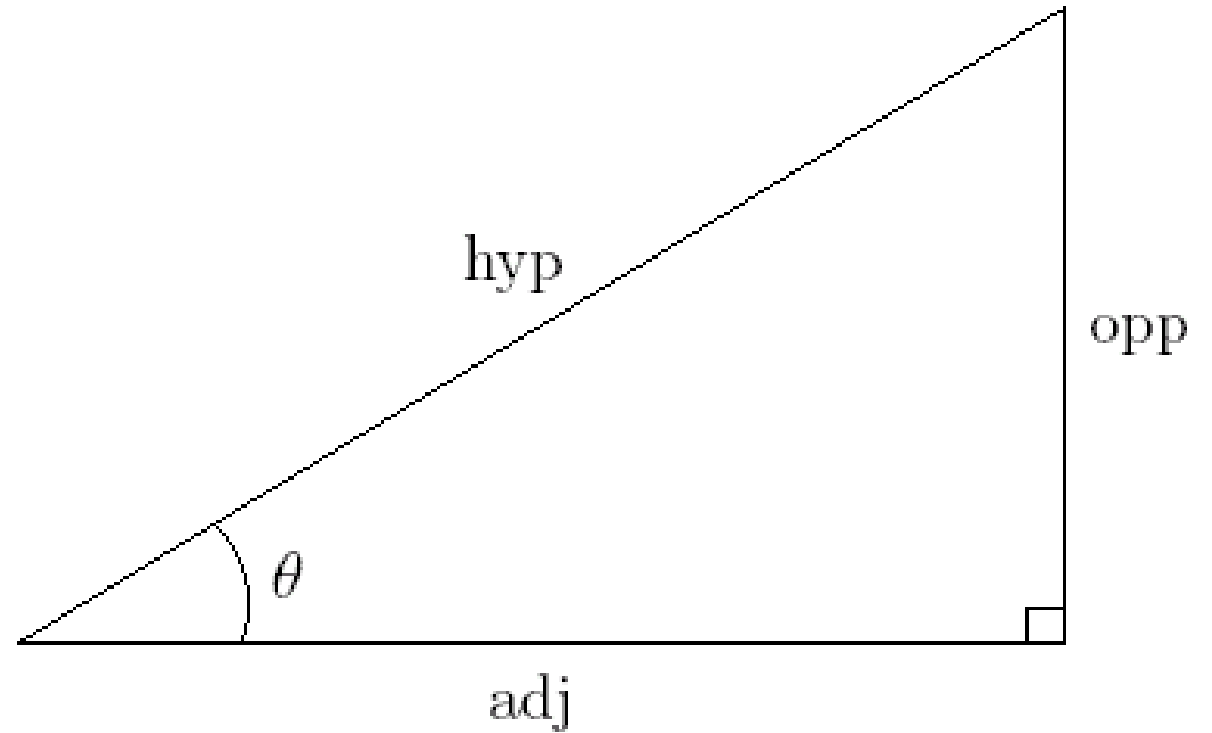
Rectangular and Polar Coordinates

Point p can be located relative to the origin by Rectangular Coordinates (X_p, Y_p) or by Polar Coordinates (r, θ)

Basic Trigonometry

sine θ = opp/hyp

cosine θ = adj/hyp

tangent θ = opp/adj

Adding waves for more interest

$y = 3\sin x + \sin(0.5x + 40) + 2\sin(3x - 60)$
$y = 3\sin x$
$y = \sin(0.5x + 40)$
$y = 2\sin(3x - 60)$