Triad Prism Spectrum — Infrared • Visible • Ultraviolet (SVG)

Interactive SVG model of a triangular prism with three spectral layers. Use the sliders to pick wavelengths in each band and see the isomorphic mapping into the visible swatch. Magenta/cyan are shown as perceptual constructs, not single wavelengths.

Infrared (approx. 700–1000+ nm)

Visible (400–700 nm)

Ultraviolet (approx. <400 nm)

IR swatch

Visible swatch

UV swatch (mapped)

Notes:
• Magenta and cyan are perceptual results of opponent processing — not single wavelength colors.
• This diagram maps IR/UV by projecting their properties into visible-space using hue-shifts and opacity to indicate "invisibility".

Infrared (700–1000 nm)

780 nm

Visible (400–700 nm)

550 nm

Ultraviolet (<400 nm)

350 nm

Mapped visible preview

Legend: Infrared → represented by deep reds/fading. Visible → spectral gradient. Ultraviolet → violet/magenta faded. Opacity shows "non-visible" energy mapped to visible proxies.