Color Code Converter

Convert HEX, RGB or HSL notation into all three formats. HSL hue wraps around 360 degrees; saturation and lightness are percentages, and RGB output rounds to 8-bit channels.

Formula: hex = base16(R,G,B); HSL = hue, saturation and lightness from normalized RGB

INPUTS AND EXAMPLE VALUES

HEX or RGB color: #0080FF

CHECK THE DEFAULT EXAMPLE

HEX: #0080FF

RGB: rgb(0, 128, 255)

HSL: hsl(209.88, 100.00%, 50.00%)

LIMITS AND CONVENTIONS

Accepts #RGB, #RRGGBB, integer rgb(r,g,b), and comma-separated hsl(h,s%,l%); HSL supports signed degree hues.

HSL conversion rounds to 8-bit sRGB channels; alpha, CSS color profiles, percent RGB and modern space/slash syntax are outside this parser.

METHOD AND SOURCES

https://azhanmh.com/guides/tools/color-code-converter

W3C - CSS Color 4: HSL notation and conversion:
https://www.w3.org/TR/css-color-4/#the-hsl-notation

Display precision is for reporting; keep unrounded values for later calculations. Verify units and conventions. This reference does not replace institution, employer or network rules.