

Color Vision Deficiency

Protanopia
unable to perceive any 'red' light

Deuteranopia
unable to perceive 'green' light

Tritanopia
unable to perceive 'blue' light

Color Palette

True

Prot.

Deut.

Trit.

By far the most common form of color blindness is congenital red–green color blindness (Daltonism), which includes protanopia/protanomaly and deuteranopia/deuteranomaly.

Protanopia Friendly Palette

Teal Blue:
Hex: #008080

Mint Green:
Hex: #00FF00

Deep Blue:
Hex: #000080

Yellow:
Hex: #FFFF00

Cyan:
Hex: #00FFFF

Deuteranopia friendly Palette

Blue:
Hex: #0000FF

Orange:
Hex: #FFA500

Purple:
Hex: #800080

Turquoise:
Hex: #40E0D0

Yellow:
Hex: #FFFF00

Tritanopia friendly Palette

Yellow:
Hex: #FFFF00

Pink:
Hex: #FFC0CB

Orange:
Hex: #FFA500

Green:
Hex: #008000

Brown:
Hex: #A52A2A

Daltonism friendly Palette

Blue:
Hex: #0000FF

Yellow:
Hex: #FFFF00

Teal/Turquoise:
Hex: #008080

Gray:
Hex: #808080

Brown:
Hex: #A52A2A

Types of colour blindness (2022) Colour Blind Awareness. Available at: <https://www.colourblindawareness.org/colour-blindness/types-of-colour-blindness/> (Accessed: 12 February 2024).

Nichols, D. (no date) Coloring for colorblindness, David Nichols. Available at: <https://davidmathlogic.com/colorblind/> (Accessed: 12 February 2024).

Color blindness (2024) Wikipedia. Available at: https://en.wikipedia.org/wiki/Color_blindness#:~:text=By%20far%20the%20most%20common,both%20on%20the%20X%20chromosome. (Accessed: 12 February 2024).

Types of color vision deficiency (no date) National Eye Institute. Available at: <https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/color-blindness/types-color-vision-deficiency#:~:text=The%20most%20common%20type%20of,of%20green%20look%20more%20red.> (Accessed: 12 February 2024).