

Converting Colors - WCAG Matrix

Web Content Accessibility Guidelines (WCAG) 2.0 - Color Matrix.

	Hex(FF5733)	Hex(DE391A)	Hex(BE1200)	Hex(9E0000)	Hex(7E0000)	Hex(5F0000)	Hex(430003)	Hex(210001)	Hex(000000)
Hex(FF5733)		Ratio: 1.42 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 2.72 Failed ⁵	Ratio: 3.53 AA 18pt ²	Ratio: 4.48 AA 18pt ²	Ratio: 5.37 AA ¹ AAA 18pt ⁴	Ratio: 6.26 AA ¹ AAA 18pt ⁴	Ratio: 6.66 AA ¹ AAA 18pt ⁴
Hex(DE391A)	Ratio: 1.42 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 1.92 Failed ⁵	Ratio: 2.49 Failed ⁵	Ratio: 3.17 AA 18pt ²	Ratio: 3.80 AA 18pt ²	Ratio: 4.42 AA 18pt ²	Ratio: 4.71 AA ¹ AAA 18pt ⁴
Hex(BE1200)	Ratio: 2.03 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.34 Failed ⁵	Ratio: 1.74 Failed ⁵	Ratio: 2.20 Failed ⁵	Ratio: 2.64 Failed ⁵	Ratio: 3.08 AA 18pt ²	Ratio: 3.28 AA 18pt ²
Hex(9E0000)	Ratio: 2.72 Failed ⁵	Ratio: 1.92 Failed ⁵	Ratio: 1.34 Failed ⁵		Ratio: 1.30 Failed ⁵	Ratio: 1.65 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 2.30 Failed ⁵	Ratio: 2.45 Failed ⁵
Hex(7E0000)	Ratio: 3.53 AA 18pt ²	Ratio: 2.49 Failed ⁵	Ratio: 1.74 Failed ⁵	Ratio: 1.30 Failed ⁵		Ratio: 1.27 Failed ⁵	Ratio: 1.52 Failed ⁵	Ratio: 1.77 Failed ⁵	Ratio: 1.89 Failed ⁵
Hex(5F0000)	Ratio: 4.48 AA 18pt ²	Ratio: 3.17 AA 18pt ²	Ratio: 2.20 Failed ⁵	Ratio: 1.65 Failed ⁵	Ratio: 1.27 Failed ⁵		Ratio: 1.20 Failed ⁵	Ratio: 1.40 Failed ⁵	Ratio: 1.49 Failed ⁵
Hex(430003)	Ratio: 5.37 AA ¹ AAA 18pt ⁴	Ratio: 3.80 AA 18pt ²	Ratio: 2.64 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 1.52 Failed ⁵	Ratio: 1.20 Failed ⁵		Ratio: 1.16 Failed ⁵	Ratio: 1.24 Failed ⁵
Hex(210001)	Ratio: 6.26 AA ¹ AAA 18pt ⁴	Ratio: 4.42 AA 18pt ²	Ratio: 3.08 AA 18pt ²	Ratio: 2.30 Failed ⁵	Ratio: 1.77 Failed ⁵	Ratio: 1.40 Failed ⁵	Ratio: 1.16 Failed ⁵		Ratio: 1.07 Failed ⁵
Hex(000000)	Ratio: 6.66 AA ¹ AAA 18pt ⁴	Ratio: 4.71 AA ¹ AAA 18pt ⁴	Ratio: 3.28 AA 18pt ²	Ratio: 2.45 Failed ⁵	Ratio: 1.89 Failed ⁵	Ratio: 1.49 Failed ⁵	Ratio: 1.24 Failed ⁵	Ratio: 1.07 Failed ⁵	

Details can be found at <https://www.w3.org/TR/WCAG20/>.

¹ AA

AA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

² AA 18pt

AA level for large text above 18pt.

³ AAA

AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

⁴ AAA 18pt

AAA level for large text above 18pt.

⁵ Failed

Fails to comply with the Web Content Accessibility Guidelines (WCAG) 2.0.

⁶ Passed

Passes the AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for all text sizes.

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