

Converting Colors - WCAG Matrix

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

	Hex(FF2C1B)	Hex(DD0000)	Hex(BC0000)	Hex(9B0000)	Hex(7B0000)	Hex(5B0003)	Hex(3D0003)	Hex(170000)	Hex(000000)
Hex(FF2C1B)		Ratio: 1.38 Failed ⁵	Ratio: 1.79 Failed ⁵	Ratio: 2.35 Failed ⁵	Ratio: 3.06 AA 18pt ²	Ratio: 3.89 AA 18pt ²	Ratio: 4.69 AA ¹ AAA 18pt ⁴	Ratio: 5.43 AA ¹ AAA 18pt ⁴	Ratio: 5.63 AA ¹ AAA 18pt ⁴
Hex(DD0000)	Ratio: 1.38 Failed ⁵		Ratio: 1.30 Failed ⁵	Ratio: 1.70 Failed ⁵	Ratio: 2.21 Failed ⁵	Ratio: 2.82 Failed ⁵	Ratio: 3.40 AA 18pt ²	Ratio: 3.93 AA 18pt ²	Ratio: 4.07 AA 18pt ²
Hex(BC0000)	Ratio: 1.79 Failed ⁵	Ratio: 1.30 Failed ⁵		Ratio: 1.31 Failed ⁵	Ratio: 1.70 Failed ⁵	Ratio: 2.17 Failed ⁵	Ratio: 2.62 Failed ⁵	Ratio: 3.03 AA 18pt ²	Ratio: 3.14 AA 18pt ²
Hex(9B0000)	Ratio: 2.35 Failed ⁵	Ratio: 1.70 Failed ⁵	Ratio: 1.31 Failed ⁵		Ratio: 1.30 Failed ⁵	Ratio: 1.66 Failed ⁵	Ratio: 2.00 Failed ⁵	Ratio: 2.31 Failed ⁵	Ratio: 2.39 Failed ⁵
Hex(7B0000)	Ratio: 3.06 AA 18pt ²	Ratio: 2.21 Failed ⁵	Ratio: 1.70 Failed ⁵	Ratio: 1.30 Failed ⁵		Ratio: 1.27 Failed ⁵	Ratio: 1.54 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 1.84 Failed ⁵
Hex(5B0003)	Ratio: 3.89 AA 18pt ²	Ratio: 2.82 Failed ⁵	Ratio: 2.17 Failed ⁵	Ratio: 1.66 Failed ⁵	Ratio: 1.27 Failed ⁵		Ratio: 1.21 Failed ⁵	Ratio: 1.40 Failed ⁵	Ratio: 1.45 Failed ⁵
Hex(3D0003)	Ratio: 4.69 AA ¹ AAA 18pt ⁴	Ratio: 3.40 AA 18pt ²	Ratio: 2.62 Failed ⁵	Ratio: 2.00 Failed ⁵	Ratio: 1.54 Failed ⁵	Ratio: 1.21 Failed ⁵		Ratio: 1.16 Failed ⁵	Ratio: 1.20 Failed ⁵
Hex(170000)	Ratio: 5.43 AA ¹ AAA 18pt ⁴	Ratio: 3.93 AA 18pt ²	Ratio: 3.03 AA 18pt ²	Ratio: 2.31 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 1.40 Failed ⁵	Ratio: 1.16 Failed ⁵		Ratio: 1.04 Failed ⁵
Hex(000000)	Ratio: 5.63 AA ¹ AAA 18pt ⁴	Ratio: 4.07 AA 18pt ²	Ratio: 3.14 AA 18pt ²	Ratio: 2.39 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 1.45 Failed ⁵	Ratio: 1.20 Failed ⁵	Ratio: 1.04 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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