

Converting Colors - WCAG Matrix

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

	Hex(C1C1C1)	Hex(A6A6A6)	Hex(8C8C8C)	Hex(727272)	Hex(5A5A5A)	Hex(424242)	Hex(2C2C2C)	Hex(181818)	Hex(000000)
Hex(C1C1C1)		Ratio: 1.35 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.67 Failed ⁵	Ratio: 3.83 AA 18pt ²	Ratio: 5.58 AA ¹ AAA 18pt ⁴	Ratio: 7.76 Passed ⁶	Ratio: 9.86 Passed ⁶	Ratio: 11.67 Passed ⁶
Hex(A6A6A6)	Ratio: 1.35 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 2.83 Failed ⁵	Ratio: 4.13 AA 18pt ²	Ratio: 5.74 AA ¹ AAA 18pt ⁴	Ratio: 7.29 Passed ⁶	Ratio: 8.63 Passed ⁶
Hex(8C8C8C)	Ratio: 1.87 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 2.99 Failed ⁵	Ratio: 4.15 AA 18pt ²	Ratio: 5.28 AA ¹ AAA 18pt ⁴	Ratio: 6.24 AA ¹ AAA 18pt ⁴
Hex(727272)	Ratio: 2.67 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 2.90 Failed ⁵	Ratio: 3.69 AA 18pt ²	Ratio: 4.37 AA 18pt ²
Hex(5A5A5A)	Ratio: 3.83 AA 18pt ²	Ratio: 2.83 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.46 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 2.57 Failed ⁵	Ratio: 3.04 AA 18pt ²
Hex(424242)	Ratio: 5.58 AA ¹ AAA 18pt ⁴	Ratio: 4.13 AA 18pt ²	Ratio: 2.99 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 1.46 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.77 Failed ⁵	Ratio: 2.09 Failed ⁵
Hex(2C2C2C)	Ratio: 7.76 Passed ⁶	Ratio: 5.74 AA ¹ AAA 18pt ⁴	Ratio: 4.15 AA 18pt ²	Ratio: 2.90 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.27 Failed ⁵	Ratio: 1.50 Failed ⁵
Hex(181818)	Ratio: 9.86 Passed ⁶	Ratio: 7.29 Passed ⁶	Ratio: 5.28 AA ¹ AAA 18pt ⁴	Ratio: 3.69 AA 18pt ²	Ratio: 2.57 Failed ⁵	Ratio: 1.77 Failed ⁵	Ratio: 1.27 Failed ⁵		Ratio: 1.18 Failed ⁵
Hex(000000)	Ratio: 11.67 Passed ⁶	Ratio: 8.63 Passed ⁶	Ratio: 6.24 AA ¹ AAA 18pt ⁴	Ratio: 4.37 AA 18pt ²	Ratio: 3.04 AA 18pt ²	Ratio: 2.09 Failed ⁵	Ratio: 1.50 Failed ⁵	Ratio: 1.18 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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