

Converting Colors - WCAG Matrix

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

	Hex(070606)	Hex(1F1F1F)	Hex(343434)	Hex(4B4A4A)	Hex(636262)	Hex(7C7B7B)	Hex(969595)	Hex(B0AFAF)	Hex(CCCBCB)	Hex(E8E7E7)
Hex(070606)		Ratio: 1.23 Failed ⁵	Ratio: 1.63 Failed ⁵	Ratio: 2.29 Failed ⁵	Ratio: 3.33 AA 18pt ²	Ratio: 4.79 AA ¹ AAA 18pt ⁴	Ratio: 6.77 AA ¹ AAA 18pt ⁴	Ratio: 9.25 Passed ⁶	Ratio: 12.50 Passed ⁶	Ratio: 16.40 Passed ⁶
Hex(1F1F1F)	Ratio: 1.23 Failed ⁵		Ratio: 1.32 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.71 Failed ⁵	Ratio: 3.91 AA 18pt ²	Ratio: 5.52 AA ¹ AAA 18pt ⁴	Ratio: 7.53 Passed ⁶	Ratio: 10.18 Passed ⁶	Ratio: 13.36 Passed ⁶
Hex(343434)	Ratio: 1.63 Failed ⁵	Ratio: 1.32 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 4.17 AA 18pt ²	Ratio: 5.69 AA ¹ AAA 18pt ⁴	Ratio: 7.69 Passed ⁶	Ratio: 10.09 Passed ⁶
Hex(4B4A4A)	Ratio: 2.29 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 2.96 Failed ⁵	Ratio: 4.04 AA 18pt ²	Ratio: 5.46 AA ¹ AAA 18pt ⁴	Ratio: 7.16 Passed ⁶
Hex(636262)	Ratio: 3.33 AA 18pt ²	Ratio: 2.71 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.78 Failed ⁵	Ratio: 3.76 AA 18pt ²	Ratio: 4.93 AA ¹ AAA 18pt ⁴
Hex(7C7B7B)	Ratio: 4.79 AA ¹ AAA 18pt ⁴	Ratio: 3.91 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 1.93 Failed ⁵	Ratio: 2.61 Failed ⁵	Ratio: 3.42 AA 18pt ²
Hex(969595)	Ratio: 6.77 AA ¹ AAA 18pt ⁴	Ratio: 5.52 AA ¹ AAA 18pt ⁴	Ratio: 4.17 AA 18pt ²	Ratio: 2.96 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 2.42 Failed ⁵
Hex(B0AFAF)	Ratio: 9.25 Passed ⁶	Ratio: 7.53 Passed ⁶	Ratio: 5.69 AA ¹ AAA 18pt ⁴	Ratio: 4.04 AA 18pt ²	Ratio: 2.78 Failed ⁵	Ratio: 1.93 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.77 Failed ⁵
Hex(CCCBCB)	Ratio: 12.50 Passed ⁶	Ratio: 10.18 Passed ⁶	Ratio: 7.69 Passed ⁶	Ratio: 5.46 AA ¹ AAA 18pt ⁴	Ratio: 3.76 AA 18pt ²	Ratio: 2.61 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.31 Failed ⁵
Hex(E8E7E7)	Ratio: 16.40 Passed ⁶	Ratio: 13.36 Passed ⁶	Ratio: 10.09 Passed ⁶	Ratio: 7.16 Passed ⁶	Ratio: 4.93 AA ¹ AAA 18pt ⁴	Ratio: 3.42 AA 18pt ²	Ratio: 2.42 Failed ⁵	Ratio: 1.77 Failed ⁵	Ratio: 1.31 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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