

Converting Colors - WCAG Matrix

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

	Hex(0A0000)	Hex(211B1B)	Hex(363030)	Hex(4D4747)	Hex(655E5E)	Hex(7E7777)	Hex(989191)	Hex(B2ABAB)	Hex(CEC6C6)	Hex(EAE2E2)
Hex(0A0000)		Ratio: 1.22 Failed ⁵	Ratio: 1.60 Failed ⁵	Ratio: 2.28 Failed ⁵	Ratio: 3.27 AA 18pt ²	Ratio: 4.73 AA ¹ AAA 18pt ⁴	Ratio: 6.71 AA ¹ AAA 18pt ⁴	Ratio: 9.19 Passed ⁶	Ratio: 12.36 Passed ⁶	Ratio: 16.26 Passed ⁶
Hex(211B1B)	Ratio: 1.22 Failed ⁵		Ratio: 1.31 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.68 Failed ⁵	Ratio: 3.87 AA 18pt ²	Ratio: 5.49 AA ¹ AAA 18pt ⁴	Ratio: 7.52 Passed ⁶	Ratio: 10.12 Passed ⁶	Ratio: 13.32 Passed ⁶
Hex(363030)	Ratio: 1.60 Failed ⁵	Ratio: 1.31 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 4.19 AA 18pt ²	Ratio: 5.74 AA ¹ AAA 18pt ⁴	Ratio: 7.72 Passed ⁶	Ratio: 10.15 Passed ⁶
Hex(4D4747)	Ratio: 2.28 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.94 Failed ⁵	Ratio: 4.03 AA 18pt ²	Ratio: 5.42 AA ¹ AAA 18pt ⁴	Ratio: 7.14 Passed ⁶
Hex(655E5E)	Ratio: 3.27 AA 18pt ²	Ratio: 2.68 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 2.81 Failed ⁵	Ratio: 3.77 AA 18pt ²	Ratio: 4.97 AA ¹ AAA 18pt ⁴
Hex(7E7777)	Ratio: 4.73 AA ¹ AAA 18pt ⁴	Ratio: 3.87 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.94 Failed ⁵	Ratio: 2.61 Failed ⁵	Ratio: 3.44 AA 18pt ²
Hex(989191)	Ratio: 6.71 AA ¹ AAA 18pt ⁴	Ratio: 5.49 AA ¹ AAA 18pt ⁴	Ratio: 4.19 AA 18pt ²	Ratio: 2.94 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 2.42 Failed ⁵
Hex(B2ABAB)	Ratio: 9.19 Passed ⁶	Ratio: 7.52 Passed ⁶	Ratio: 5.74 AA ¹ AAA 18pt ⁴	Ratio: 4.03 AA 18pt ²	Ratio: 2.81 Failed ⁵	Ratio: 1.94 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.77 Failed ⁵
Hex(CEC6C6)	Ratio: 12.36 Passed ⁶	Ratio: 10.12 Passed ⁶	Ratio: 7.72 Passed ⁶	Ratio: 5.42 AA ¹ AAA 18pt ⁴	Ratio: 3.77 AA 18pt ²	Ratio: 2.61 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.32 Failed ⁵
Hex(EAE2E2)	Ratio: 16.26 Passed ⁶	Ratio: 13.32 Passed ⁶	Ratio: 10.15 Passed ⁶	Ratio: 7.14 Passed ⁶	Ratio: 4.97 AA ¹ AAA 18pt ⁴	Ratio: 3.44 AA 18pt ²	Ratio: 2.42 Failed ⁵	Ratio: 1.77 Failed ⁵	Ratio: 1.32 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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