

Converting Colors - WCAG Matrix

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

	Hex(FFFFFF)	Hex(E2E2CB)	Hex(C6C6AF)	Hex(ABAB95)	Hex(90917B)	Hex(777762)	Hex(5E5E4A)	Hex(464734)	Hex(2F301E)	Hex(1B1B06)
Hex(FFFFFF)		Ratio: 1.30 Failed ⁵	Ratio: 1.71 Failed ⁵	Ratio: 2.30 Failed ⁵	Ratio: 3.18 AA 18pt ²	Ratio: 4.50 AA ¹ AAA 18pt ⁴	Ratio: 6.52 AA ¹ AAA 18pt ⁴	Ratio: 9.37 Passed ⁶	Ratio: 13.26 Passed ⁶	Ratio: 17.17 Passed ⁶
Hex(E2E2CB)	Ratio: 1.30 Failed ⁵		Ratio: 1.32 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 2.45 Failed ⁵	Ratio: 3.47 AA 18pt ²	Ratio: 5.03 AA ¹ AAA 18pt ⁴	Ratio: 7.22 Passed ⁶	Ratio: 10.22 Passed ⁶	Ratio: 13.25 Passed ⁶
Hex(C6C6AF)	Ratio: 1.71 Failed ⁵	Ratio: 1.32 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 2.63 Failed ⁵	Ratio: 3.81 AA 18pt ²	Ratio: 5.47 AA ¹ AAA 18pt ⁴	Ratio: 7.74 Passed ⁶	Ratio: 10.03 Passed ⁶
Hex(ABAB95)	Ratio: 2.30 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 2.83 Failed ⁵	Ratio: 4.07 AA 18pt ²	Ratio: 5.75 AA ¹ AAA 18pt ⁴	Ratio: 7.46 Passed ⁶
Hex(90917B)	Ratio: 3.18 AA 18pt ²	Ratio: 2.45 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 4.17 AA 18pt ²	Ratio: 5.41 AA ¹ AAA 18pt ⁴
Hex(777762)	Ratio: 4.50 AA ¹ AAA 18pt ⁴	Ratio: 3.47 AA 18pt ²	Ratio: 2.63 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.94 Failed ⁵	Ratio: 3.81 AA 18pt ²
Hex(5E5E4A)	Ratio: 6.52 AA ¹ AAA 18pt ⁴	Ratio: 5.03 AA ¹ AAA 18pt ⁴	Ratio: 3.81 AA 18pt ²	Ratio: 2.83 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 2.63 Failed ⁵
Hex(464734)	Ratio: 9.37 Passed ⁶	Ratio: 7.22 Passed ⁶	Ratio: 5.47 AA ¹ AAA 18pt ⁴	Ratio: 4.07 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.83 Failed ⁵
Hex(2F301E)	Ratio: 13.26 Passed ⁶	Ratio: 10.22 Passed ⁶	Ratio: 7.74 Passed ⁶	Ratio: 5.75 AA ¹ AAA 18pt ⁴	Ratio: 4.17 AA 18pt ²	Ratio: 2.94 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.30 Failed ⁵
Hex(1B1B06)	Ratio: 17.17 Passed ⁶	Ratio: 13.25 Passed ⁶	Ratio: 10.03 Passed ⁶	Ratio: 7.46 Passed ⁶	Ratio: 5.41 AA ¹ AAA 18pt ⁴	Ratio: 3.81 AA 18pt ²	Ratio: 2.63 Failed ⁵	Ratio: 1.83 Failed ⁵	Ratio: 1.30 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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