

Converting Colors - WCAG Matrix

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

	Hex(140C0C)	Hex(282222)	Hex(3E3838)	Hex(554F4F)	Hex(6D6767)	Hex(868080)	Hex(A19A9A)	Hex(BCB4B4)	Hex(D7D0D0)	Hex(F4ECEC)
Hex(140C0C)		Ratio: 1.23 Failed ⁵	Ratio: 1.68 Failed ⁵	Ratio: 2.41 Failed ⁵	Ratio: 3.48 AA 18pt ²	Ratio: 4.98 AA ¹ AAA 18pt ⁴	Ratio: 6.99 AA ¹ AAA 18pt ⁴	Ratio: 9.49 Passed ⁶	Ratio: 12.71 Passed ⁶	Ratio: 16.60 Passed ⁶
Hex(282222)	Ratio: 1.23 Failed ⁵		Ratio: 1.36 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 2.82 Failed ⁵	Ratio: 4.03 AA 18pt ²	Ratio: 5.67 AA ¹ AAA 18pt ⁴	Ratio: 7.69 Passed ⁶	Ratio: 10.30 Passed ⁶	Ratio: 13.45 Passed ⁶
Hex(3E3838)	Ratio: 1.68 Failed ⁵	Ratio: 1.36 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 2.96 Failed ⁵	Ratio: 4.16 AA 18pt ²	Ratio: 5.65 AA ¹ AAA 18pt ⁴	Ratio: 7.56 Passed ⁶	Ratio: 9.88 Passed ⁶
Hex(554F4F)	Ratio: 2.41 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 2.91 Failed ⁵	Ratio: 3.94 AA 18pt ²	Ratio: 5.28 AA ¹ AAA 18pt ⁴	Ratio: 6.90 AA ¹ AAA 18pt ⁴
Hex(6D6767)	Ratio: 3.48 AA 18pt ²	Ratio: 2.82 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.01 Failed ⁵	Ratio: 2.73 Failed ⁵	Ratio: 3.65 AA 18pt ²	Ratio: 4.77 AA ¹ AAA 18pt ⁴
Hex(868080)	Ratio: 4.98 AA ¹ AAA 18pt ⁴	Ratio: 4.03 AA 18pt ²	Ratio: 2.96 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 1.91 Failed ⁵	Ratio: 2.55 Failed ⁵	Ratio: 3.34 AA 18pt ²
Hex(A19A9A)	Ratio: 6.99 AA ¹ AAA 18pt ⁴	Ratio: 5.67 AA ¹ AAA 18pt ⁴	Ratio: 4.16 AA 18pt ²	Ratio: 2.91 Failed ⁵	Ratio: 2.01 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.36 Failed ⁵	Ratio: 1.82 Failed ⁵	Ratio: 2.37 Failed ⁵
Hex(BCB4B4)	Ratio: 9.49 Passed ⁶	Ratio: 7.69 Passed ⁶	Ratio: 5.65 AA ¹ AAA 18pt ⁴	Ratio: 3.94 AA 18pt ²	Ratio: 2.73 Failed ⁵	Ratio: 1.91 Failed ⁵	Ratio: 1.36 Failed ⁵		Ratio: 1.34 Failed ⁵	Ratio: 1.75 Failed ⁵
Hex(D7D0D0)	Ratio: 12.71 Passed ⁶	Ratio: 10.30 Passed ⁶	Ratio: 7.56 Passed ⁶	Ratio: 5.28 AA ¹ AAA 18pt ⁴	Ratio: 3.65 AA 18pt ²	Ratio: 2.55 Failed ⁵	Ratio: 1.82 Failed ⁵	Ratio: 1.34 Failed ⁵		Ratio: 1.31 Failed ⁵
Hex(F4ECEC)	Ratio: 16.60 Passed ⁶	Ratio: 13.45 Passed ⁶	Ratio: 9.88 Passed ⁶	Ratio: 6.90 AA ¹ AAA 18pt ⁴	Ratio: 4.77 AA ¹ AAA 18pt ⁴	Ratio: 3.34 AA 18pt ²	Ratio: 2.37 Failed ⁵	Ratio: 1.75 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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