

Converting Colors - WCAG Matrix

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

	Hex(1C1111)	Hex(312526)	Hex(473B3B)	Hex(5F5252)	Hex(786A6A)	Hex(918484)	Hex(AC9E9E)	Hex(C7B9B9)	Hex(E3D4D4)	Hex(FFF1F1)
Hex(1C1111)		Ratio: 1.25 Failed ⁵	Ratio: 1.72 Failed ⁵	Ratio: 2.47 Failed ⁵	Ratio: 3.58 AA 18pt ²	Ratio: 5.13 AA ¹ AAA 18pt ⁴	Ratio: 7.15 Passed ⁶	Ratio: 9.73 Passed ⁶	Ratio: 12.86 Passed ⁶	Ratio: 16.79 Passed ⁶
Hex(312526)	Ratio: 1.25 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 2.86 Failed ⁵	Ratio: 4.10 AA 18pt ²	Ratio: 5.72 AA ¹ AAA 18pt ⁴	Ratio: 7.78 Passed ⁶	Ratio: 10.28 Passed ⁶	Ratio: 13.42 Passed ⁶
Hex(473B3B)	Ratio: 1.72 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.98 Failed ⁵	Ratio: 4.16 AA 18pt ²	Ratio: 5.66 AA ¹ AAA 18pt ⁴	Ratio: 7.48 Passed ⁶	Ratio: 9.76 Passed ⁶
Hex(5F5252)	Ratio: 2.47 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 2.89 Failed ⁵	Ratio: 3.93 AA 18pt ²	Ratio: 5.20 AA ¹ AAA 18pt ⁴	Ratio: 6.79 AA ¹ AAA 18pt ⁴
Hex(786A6A)	Ratio: 3.58 AA 18pt ²	Ratio: 2.86 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.00 Failed ⁵	Ratio: 2.72 Failed ⁵	Ratio: 3.60 AA 18pt ²	Ratio: 4.70 AA ¹ AAA 18pt ⁴
Hex(918484)	Ratio: 5.13 AA ¹ AAA 18pt ⁴	Ratio: 4.10 AA 18pt ²	Ratio: 2.98 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.90 Failed ⁵	Ratio: 2.51 Failed ⁵	Ratio: 3.27 AA 18pt ²
Hex(AC9E9E)	Ratio: 7.15 Passed ⁶	Ratio: 5.72 AA ¹ AAA 18pt ⁴	Ratio: 4.16 AA 18pt ²	Ratio: 2.89 Failed ⁵	Ratio: 2.00 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.36 Failed ⁵	Ratio: 1.80 Failed ⁵	Ratio: 2.35 Failed ⁵
Hex(C7B9B9)	Ratio: 9.73 Passed ⁶	Ratio: 7.78 Passed ⁶	Ratio: 5.66 AA ¹ AAA 18pt ⁴	Ratio: 3.93 AA 18pt ²	Ratio: 2.72 Failed ⁵	Ratio: 1.90 Failed ⁵	Ratio: 1.36 Failed ⁵		Ratio: 1.32 Failed ⁵	Ratio: 1.73 Failed ⁵
Hex(E3D4D4)	Ratio: 12.86 Passed ⁶	Ratio: 10.28 Passed ⁶	Ratio: 7.48 Passed ⁶	Ratio: 5.20 AA ¹ AAA 18pt ⁴	Ratio: 3.60 AA 18pt ²	Ratio: 2.51 Failed ⁵	Ratio: 1.80 Failed ⁵	Ratio: 1.32 Failed ⁵		Ratio: 1.31 Failed ⁵
Hex(FFF1F1)	Ratio: 16.79 Passed ⁶	Ratio: 13.42 Passed ⁶	Ratio: 9.76 Passed ⁶	Ratio: 6.79 AA ¹ AAA 18pt ⁴	Ratio: 4.70 AA ¹ AAA 18pt ⁴	Ratio: 3.27 AA 18pt ²	Ratio: 2.35 Failed ⁵	Ratio: 1.73 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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