

Converting Colors - WCAG Matrix

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

	Hex(1C2121)	Hex(303636)	Hex(474D4D)	Hex(5E6666)	Hex(787D7D)	Hex(919999)	Hex(ABB3B3)	Hex(C7CFCF)	Hex(E3EBEB)	Hex(FFFFFF)
Hex(1C2121)		Ratio: 1.32 Failed ⁵	Ratio: 1.89 Failed ⁵	Ratio: 2.77 Failed ⁵	Ratio: 3.90 AA 18pt ²	Ratio: 5.60 AA ¹ AAA 18pt ⁴	Ratio: 7.63 Passed ⁶	Ratio: 10.28 Passed ⁶	Ratio: 13.46 Passed ⁶	Ratio: 16.29 Passed ⁶
Hex(303636)	Ratio: 1.32 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 4.23 AA 18pt ²	Ratio: 5.76 AA ¹ AAA 18pt ⁴	Ratio: 7.77 Passed ⁶	Ratio: 10.17 Passed ⁶	Ratio: 12.31 Passed ⁶
Hex(474D4D)	Ratio: 1.89 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.46 Failed ⁵	Ratio: 2.06 Failed ⁵	Ratio: 2.96 Failed ⁵	Ratio: 4.03 AA 18pt ²	Ratio: 5.44 AA ¹ AAA 18pt ⁴	Ratio: 7.12 Passed ⁶	Ratio: 8.62 Passed ⁶
Hex(5E6666)	Ratio: 2.77 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 1.46 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 2.75 Failed ⁵	Ratio: 3.71 AA 18pt ²	Ratio: 4.86 AA ¹ AAA 18pt ⁴	Ratio: 5.88 AA ¹ AAA 18pt ⁴
Hex(787D7D)	Ratio: 3.90 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.06 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 2.64 Failed ⁵	Ratio: 3.45 AA 18pt ²	Ratio: 4.18 AA 18pt ²
Hex(919999)	Ratio: 5.60 AA ¹ AAA 18pt ⁴	Ratio: 4.23 AA 18pt ²	Ratio: 2.96 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.36 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 2.40 Failed ⁵	Ratio: 2.91 Failed ⁵
Hex(ABB3B3)	Ratio: 7.63 Passed ⁶	Ratio: 5.76 AA ¹ AAA 18pt ⁴	Ratio: 4.03 AA 18pt ²	Ratio: 2.75 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 1.36 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.76 Failed ⁵	Ratio: 2.14 Failed ⁵
Hex(C7CFCF)	Ratio: 10.28 Passed ⁶	Ratio: 7.77 Passed ⁶	Ratio: 5.44 AA ¹ AAA 18pt ⁴	Ratio: 3.71 AA 18pt ²	Ratio: 2.64 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.31 Failed ⁵	Ratio: 1.58 Failed ⁵
Hex(E3EBEB)	Ratio: 13.46 Passed ⁶	Ratio: 10.17 Passed ⁶	Ratio: 7.12 Passed ⁶	Ratio: 4.86 AA ¹ AAA 18pt ⁴	Ratio: 3.45 AA 18pt ²	Ratio: 2.40 Failed ⁵	Ratio: 1.76 Failed ⁵	Ratio: 1.31 Failed ⁵		Ratio: 1.21 Failed ⁵
Hex(FFFFFF)	Ratio: 16.29 Passed ⁶	Ratio: 12.31 Passed ⁶	Ratio: 8.62 Passed ⁶	Ratio: 5.88 AA ¹ AAA 18pt ⁴	Ratio: 4.18 AA 18pt ²	Ratio: 2.91 Failed ⁵	Ratio: 2.14 Failed ⁵	Ratio: 1.58 Failed ⁵	Ratio: 1.21 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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