

Converting Colors - WCAG Matrix

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

	Hex(E5E7E7)	Hex(C9CBCB)	Hex(AEAFAE)	Hex(939595)	Hex(797B7B)	Hex(616261)	Hex(494A49)	Hex(323434)	Hex(1D1F1F)	Hex(030605)
Hex(E5E7E7)		Ratio: 1.31 Failed ⁵	Ratio: 1.77 Failed ⁵	Ratio: 2.43 Failed ⁵	Ratio: 3.43 AA 18pt ²	Ratio: 4.93 AA ¹ AAA 18pt ⁴	Ratio: 7.17 Passed ⁶	Ratio: 10.09 Passed ⁶	Ratio: 13.34 Passed ⁶	Ratio: 16.39 Passed ⁶
Hex(C9CBCB)	Ratio: 1.31 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 2.61 Failed ⁵	Ratio: 3.76 AA 18pt ²	Ratio: 5.46 AA ¹ AAA 18pt ⁴	Ratio: 7.69 Passed ⁶	Ratio: 10.16 Passed ⁶	Ratio: 12.49 Passed ⁶
Hex(AEAFAE)	Ratio: 1.77 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.93 Failed ⁵	Ratio: 2.78 Failed ⁵	Ratio: 4.05 AA 18pt ²	Ratio: 5.69 AA ¹ AAA 18pt ⁴	Ratio: 7.53 Passed ⁶	Ratio: 9.25 Passed ⁶
Hex(939595)	Ratio: 2.43 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 2.96 Failed ⁵	Ratio: 4.16 AA 18pt ²	Ratio: 5.50 AA ¹ AAA 18pt ⁴	Ratio: 6.76 AA ¹ AAA 18pt ⁴
Hex(797B7B)	Ratio: 3.43 AA 18pt ²	Ratio: 2.61 Failed ⁵	Ratio: 1.93 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 2.94 Failed ⁵	Ratio: 3.89 AA 18pt ²	Ratio: 4.78 AA ¹ AAA 18pt ⁴
Hex(616261)	Ratio: 4.93 AA ¹ AAA 18pt ⁴	Ratio: 3.76 AA 18pt ²	Ratio: 2.78 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.70 Failed ⁵	Ratio: 3.32 AA 18pt ²
Hex(494A49)	Ratio: 7.17 Passed ⁶	Ratio: 5.46 AA ¹ AAA 18pt ⁴	Ratio: 4.05 AA 18pt ²	Ratio: 2.96 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 1.86 Failed ⁵	Ratio: 2.29 Failed ⁵
Hex(323434)	Ratio: 10.09 Passed ⁶	Ratio: 7.69 Passed ⁶	Ratio: 5.69 AA ¹ AAA 18pt ⁴	Ratio: 4.16 AA 18pt ²	Ratio: 2.94 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.32 Failed ⁵	Ratio: 1.62 Failed ⁵
Hex(1D1F1F)	Ratio: 13.34 Passed ⁶	Ratio: 10.16 Passed ⁶	Ratio: 7.53 Passed ⁶	Ratio: 5.50 AA ¹ AAA 18pt ⁴	Ratio: 3.89 AA 18pt ²	Ratio: 2.70 Failed ⁵	Ratio: 1.86 Failed ⁵	Ratio: 1.32 Failed ⁵		Ratio: 1.23 Failed ⁵
Hex(030605)	Ratio: 16.39 Passed ⁶	Ratio: 12.49 Passed ⁶	Ratio: 9.25 Passed ⁶	Ratio: 6.76 AA ¹ AAA 18pt ⁴	Ratio: 4.78 AA ¹ AAA 18pt ⁴	Ratio: 3.32 AA 18pt ²	Ratio: 2.29 Failed ⁵	Ratio: 1.62 Failed ⁵	Ratio: 1.23 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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