

Converting Colors - WCAG Matrix

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

	Hex(E4E5E5)	Hex(C8C8C9)	Hex(ADADAD)	Hex(929393)	Hex(797979)	Hex(606060)	Hex(484848)	Hex(323232)	Hex(1D1D1D)	Hex(030303)
Hex(E4E5E5)		Ratio: 1.32 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 2.44 Failed ⁵	Ratio: 3.45 AA 18pt ²	Ratio: 4.98 AA ¹ AAA 18pt ⁴	Ratio: 7.25 Passed ⁶	Ratio: 10.16 Passed ⁶	Ratio: 13.36 Passed ⁶	Ratio: 16.34 Passed ⁶
Hex(C8C8C9)	Ratio: 1.32 Failed ⁵		Ratio: 1.34 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 2.60 Failed ⁵	Ratio: 3.76 AA 18pt ²	Ratio: 5.47 AA ¹ AAA 18pt ⁴	Ratio: 7.67 Passed ⁶	Ratio: 10.08 Passed ⁶	Ratio: 12.34 Passed ⁶
Hex(ADADAD)	Ratio: 1.78 Failed ⁵	Ratio: 1.34 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.94 Failed ⁵	Ratio: 2.80 Failed ⁵	Ratio: 4.08 AA 18pt ²	Ratio: 5.71 AA ¹ AAA 18pt ⁴	Ratio: 7.51 Passed ⁶	Ratio: 9.19 Passed ⁶
Hex(929393)	Ratio: 2.44 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.97 Failed ⁵	Ratio: 4.16 AA 18pt ²	Ratio: 5.47 AA ¹ AAA 18pt ⁴	Ratio: 6.70 AA ¹ AAA 18pt ⁴
Hex(797979)	Ratio: 3.45 AA 18pt ²	Ratio: 2.60 Failed ⁵	Ratio: 1.94 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.10 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 3.87 AA 18pt ²	Ratio: 4.74 AA ¹ AAA 18pt ⁴
Hex(606060)	Ratio: 4.98 AA ¹ AAA 18pt ⁴	Ratio: 3.76 AA 18pt ²	Ratio: 2.80 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.68 Failed ⁵	Ratio: 3.28 AA 18pt ²
Hex(484848)	Ratio: 7.25 Passed ⁶	Ratio: 5.47 AA ¹ AAA 18pt ⁴	Ratio: 4.08 AA 18pt ²	Ratio: 2.97 Failed ⁵	Ratio: 2.10 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 2.25 Failed ⁵
Hex(323232)	Ratio: 10.16 Passed ⁶	Ratio: 7.67 Passed ⁶	Ratio: 5.71 AA ¹ AAA 18pt ⁴	Ratio: 4.16 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.31 Failed ⁵	Ratio: 1.61 Failed ⁵
Hex(1D1D1D)	Ratio: 13.36 Passed ⁶	Ratio: 10.08 Passed ⁶	Ratio: 7.51 Passed ⁶	Ratio: 5.47 AA ¹ AAA 18pt ⁴	Ratio: 3.87 AA 18pt ²	Ratio: 2.68 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 1.31 Failed ⁵		Ratio: 1.22 Failed ⁵
Hex(030303)	Ratio: 16.34 Passed ⁶	Ratio: 12.34 Passed ⁶	Ratio: 9.19 Passed ⁶	Ratio: 6.70 AA ¹ AAA 18pt ⁴	Ratio: 4.74 AA ¹ AAA 18pt ⁴	Ratio: 3.28 AA 18pt ²	Ratio: 2.25 Failed ⁵	Ratio: 1.61 Failed ⁵	Ratio: 1.22 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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