

Converting Colors - WCAG Matrix

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

	Hex(E2E2E3)	Hex(C6C6C7)	Hex(ABABAC)	Hex(909191)	Hex(777778)	Hex(5E5E5F)	Hex(474747)	Hex(303031)	Hex(1B1B1C)	Hex(000001)
Hex(E2E2E3)		Ratio: 1.32 Failed ⁵	Ratio: 1.77 Failed ⁵	Ratio: 2.44 Failed ⁵	Ratio: 3.46 AA 18pt ²	Ratio: 5.00 AA ¹ AAA 18pt ⁴	Ratio: 7.18 Passed ⁶	Ratio: 10.18 Passed ⁶	Ratio: 13.29 Passed ⁶	Ratio: 16.22 Passed ⁶
Hex(C6C6C7)	Ratio: 1.32 Failed ⁵		Ratio: 1.34 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 2.62 Failed ⁵	Ratio: 3.79 AA 18pt ²	Ratio: 5.44 AA ¹ AAA 18pt ⁴	Ratio: 7.72 Passed ⁶	Ratio: 10.08 Passed ⁶	Ratio: 12.30 Passed ⁶
Hex(ABABAC)	Ratio: 1.77 Failed ⁵	Ratio: 1.34 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 2.82 Failed ⁵	Ratio: 4.05 AA 18pt ²	Ratio: 5.75 AA ¹ AAA 18pt ⁴	Ratio: 7.50 Passed ⁶	Ratio: 9.15 Passed ⁶
Hex(909191)	Ratio: 2.44 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 2.94 Failed ⁵	Ratio: 4.17 AA 18pt ²	Ratio: 5.45 AA ¹ AAA 18pt ⁴	Ratio: 6.64 AA ¹ AAA 18pt ⁴
Hex(777778)	Ratio: 3.46 AA 18pt ²	Ratio: 2.62 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 3.85 AA 18pt ²	Ratio: 4.69 AA ¹ AAA 18pt ⁴
Hex(5E5E5F)	Ratio: 5.00 AA ¹ AAA 18pt ⁴	Ratio: 3.79 AA 18pt ²	Ratio: 2.82 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.66 Failed ⁵	Ratio: 3.24 AA 18pt ²
Hex(474747)	Ratio: 7.18 Passed ⁶	Ratio: 5.44 AA ¹ AAA 18pt ⁴	Ratio: 4.05 AA 18pt ²	Ratio: 2.94 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 2.26 Failed ⁵
Hex(303031)	Ratio: 10.18 Passed ⁶	Ratio: 7.72 Passed ⁶	Ratio: 5.75 AA ¹ AAA 18pt ⁴	Ratio: 4.17 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.31 Failed ⁵	Ratio: 1.59 Failed ⁵
Hex(1B1B1C)	Ratio: 13.29 Passed ⁶	Ratio: 10.08 Passed ⁶	Ratio: 7.50 Passed ⁶	Ratio: 5.45 AA ¹ AAA 18pt ⁴	Ratio: 3.85 AA 18pt ²	Ratio: 2.66 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 1.31 Failed ⁵		Ratio: 1.22 Failed ⁵
Hex(000001)	Ratio: 16.22 Passed ⁶	Ratio: 12.30 Passed ⁶	Ratio: 9.15 Passed ⁶	Ratio: 6.64 AA ¹ AAA 18pt ⁴	Ratio: 4.69 AA ¹ AAA 18pt ⁴	Ratio: 3.24 AA 18pt ²	Ratio: 2.26 Failed ⁵	Ratio: 1.59 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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