

Converting Colors - WCAG Matrix

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

	Hex(000101)	Hex(1B1C1C)	Hex(303131)	Hex(474747)	Hex(5E5F5F)	Hex(777878)	Hex(919191)	Hex(ABACAC)	Hex(C6C7C7)	Hex(E2E3E3)
Hex(000101)		Ratio: 1.22 Failed ⁵	Ratio: 1.60 Failed ⁵	Ratio: 2.25 Failed ⁵	Ratio: 3.26 AA 18pt ²	Ratio: 4.72 AA ¹ AAA 18pt ⁴	Ratio: 6.63 AA ¹ AAA 18pt ⁴	Ratio: 9.18 Passed ⁶	Ratio: 12.34 Passed ⁶	Ratio: 16.25 Passed ⁶
Hex(1B1C1C)	Ratio: 1.22 Failed ⁵		Ratio: 1.31 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 2.67 Failed ⁵	Ratio: 3.86 AA 18pt ²	Ratio: 5.42 AA ¹ AAA 18pt ⁴	Ratio: 7.51 Passed ⁶	Ratio: 10.08 Passed ⁶	Ratio: 13.28 Passed ⁶
Hex(303131)	Ratio: 1.60 Failed ⁵	Ratio: 1.31 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 4.14 AA 18pt ²	Ratio: 5.73 AA ¹ AAA 18pt ⁴	Ratio: 7.70 Passed ⁶	Ratio: 10.15 Passed ⁶
Hex(474747)	Ratio: 2.25 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.10 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 4.08 AA 18pt ²	Ratio: 5.48 AA ¹ AAA 18pt ⁴	Ratio: 7.23 Passed ⁶
Hex(5E5F5F)	Ratio: 3.26 AA 18pt ²	Ratio: 2.67 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 2.82 Failed ⁵	Ratio: 3.78 AA 18pt ²	Ratio: 4.98 AA ¹ AAA 18pt ⁴
Hex(777878)	Ratio: 4.72 AA ¹ AAA 18pt ⁴	Ratio: 3.86 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.10 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 2.61 Failed ⁵	Ratio: 3.44 AA 18pt ²
Hex(919191)	Ratio: 6.63 AA ¹ AAA 18pt ⁴	Ratio: 5.42 AA ¹ AAA 18pt ⁴	Ratio: 4.14 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.86 Failed ⁵	Ratio: 2.45 Failed ⁵
Hex(ABACAC)	Ratio: 9.18 Passed ⁶	Ratio: 7.51 Passed ⁶	Ratio: 5.73 AA ¹ AAA 18pt ⁴	Ratio: 4.08 AA 18pt ²	Ratio: 2.82 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.34 Failed ⁵	Ratio: 1.77 Failed ⁵
Hex(C6C7C7)	Ratio: 12.34 Passed ⁶	Ratio: 10.08 Passed ⁶	Ratio: 7.70 Passed ⁶	Ratio: 5.48 AA ¹ AAA 18pt ⁴	Ratio: 3.78 AA 18pt ²	Ratio: 2.61 Failed ⁵	Ratio: 1.86 Failed ⁵	Ratio: 1.34 Failed ⁵		Ratio: 1.32 Failed ⁵
Hex(E2E3E3)	Ratio: 16.25 Passed ⁶	Ratio: 13.28 Passed ⁶	Ratio: 10.15 Passed ⁶	Ratio: 7.23 Passed ⁶	Ratio: 4.98 AA ¹ AAA 18pt ⁴	Ratio: 3.44 AA 18pt ²	Ratio: 2.45 Failed ⁵	Ratio: 1.77 Failed ⁵	Ratio: 1.32 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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