

Converting Colors - WCAG Matrix

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

	Hex(C6C7C7)	Hex(ABACAC)	Hex(909191)	Hex(777878)	Hex(5E5F5F)	Hex(464747)	Hex(303131)	Hex(1B1C1C)	Hex(000101)	Hex(000000)
Hex(C6C7C7)		Ratio: 1.34 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.61 Failed ⁵	Ratio: 3.78 AA 18pt ²	Ratio: 5.50 AA ¹ AAA 18pt ⁴	Ratio: 7.70 Passed ⁶	Ratio: 10.08 Passed ⁶	Ratio: 12.34 Passed ⁶	Ratio: 12.40 Passed ⁶
Hex(ABACAC)	Ratio: 1.34 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 2.82 Failed ⁵	Ratio: 4.10 AA 18pt ²	Ratio: 5.73 AA ¹ AAA 18pt ⁴	Ratio: 7.51 Passed ⁶	Ratio: 9.18 Passed ⁶	Ratio: 9.23 Passed ⁶
Hex(909191)	Ratio: 1.87 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 4.13 AA 18pt ²	Ratio: 5.40 AA ¹ AAA 18pt ⁴	Ratio: 6.61 AA ¹ AAA 18pt ⁴	Ratio: 6.64 AA ¹ AAA 18pt ⁴
Hex(777878)	Ratio: 2.61 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.11 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 3.86 AA 18pt ²	Ratio: 4.72 AA ¹ AAA 18pt ⁴	Ratio: 4.74 AA ¹ AAA 18pt ⁴
Hex(5E5F5F)	Ratio: 3.78 AA 18pt ²	Ratio: 2.82 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.46 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.67 Failed ⁵	Ratio: 3.26 AA 18pt ²	Ratio: 3.28 AA 18pt ²
Hex(464747)	Ratio: 5.50 AA ¹ AAA 18pt ⁴	Ratio: 4.10 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.11 Failed ⁵	Ratio: 1.46 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 1.83 Failed ⁵	Ratio: 2.24 Failed ⁵	Ratio: 2.25 Failed ⁵
Hex(303131)	Ratio: 7.70 Passed ⁶	Ratio: 5.73 AA ¹ AAA 18pt ⁴	Ratio: 4.13 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.31 Failed ⁵	Ratio: 1.60 Failed ⁵	Ratio: 1.61 Failed ⁵
Hex(1B1C1C)	Ratio: 10.08 Passed ⁶	Ratio: 7.51 Passed ⁶	Ratio: 5.40 AA ¹ AAA 18pt ⁴	Ratio: 3.86 AA 18pt ²	Ratio: 2.67 Failed ⁵	Ratio: 1.83 Failed ⁵	Ratio: 1.31 Failed ⁵		Ratio: 1.22 Failed ⁵	Ratio: 1.23 Failed ⁵
Hex(000101)	Ratio: 12.34 Passed ⁶	Ratio: 9.18 Passed ⁶	Ratio: 6.61 AA ¹ AAA 18pt ⁴	Ratio: 4.72 AA ¹ AAA 18pt ⁴	Ratio: 3.26 AA 18pt ²	Ratio: 2.24 Failed ⁵	Ratio: 1.60 Failed ⁵	Ratio: 1.22 Failed ⁵		Ratio: 1.00 Failed ⁵
Hex(000000)	Ratio: 12.40 Passed ⁶	Ratio: 9.23 Passed ⁶	Ratio: 6.64 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: 1.23 Failed ⁵	Ratio: 1.00 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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