

Converting Colors - WCAG Matrix

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

	Hex(B5C7C7)	Hex(9AACAC)	Hex(809191)	Hex(677778)	Hex(4F5F5F)	Hex(384747)	Hex(223131)	Hex(0D1C1C)	Hex(000001)	Hex(000000)
Hex(B5C7C7)		Ratio: 1.35 Failed ⁵	Ratio: 1.88 Failed ⁵	Ratio: 2.67 Failed ⁵	Ratio: 3.82 AA 18pt ²	Ratio: 5.54 AA ¹ AAA 18pt ⁴	Ratio: 7.71 Passed ⁶	Ratio: 9.97 Passed ⁶	Ratio: 11.95 Passed ⁶	Ratio: 11.96 Passed ⁶
Hex(9AACAC)	Ratio: 1.35 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 2.83 Failed ⁵	Ratio: 4.11 AA 18pt ²	Ratio: 5.72 AA ¹ AAA 18pt ⁴	Ratio: 7.39 Passed ⁶	Ratio: 8.87 Passed ⁶	Ratio: 8.87 Passed ⁶
Hex(809191)	Ratio: 1.88 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 4.11 AA 18pt ²	Ratio: 5.31 AA ¹ AAA 18pt ⁴	Ratio: 6.37 AA ¹ AAA 18pt ⁴	Ratio: 6.38 AA ¹ AAA 18pt ⁴
Hex(677778)	Ratio: 2.67 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.89 Failed ⁵	Ratio: 3.74 AA 18pt ²	Ratio: 4.48 AA 18pt ²	Ratio: 4.49 AA 18pt ²
Hex(4F5F5F)	Ratio: 3.82 AA 18pt ²	Ratio: 2.83 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 2.61 Failed ⁵	Ratio: 3.13 AA 18pt ²	Ratio: 3.13 AA 18pt ²
Hex(384747)	Ratio: 5.54 AA ¹ AAA 18pt ⁴	Ratio: 4.11 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.80 Failed ⁵	Ratio: 2.16 Failed ⁵	Ratio: 2.16 Failed ⁵
Hex(223131)	Ratio: 7.71 Passed ⁶	Ratio: 5.72 AA ¹ AAA 18pt ⁴	Ratio: 4.11 AA 18pt ²	Ratio: 2.89 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.29 Failed ⁵	Ratio: 1.55 Failed ⁵	Ratio: 1.55 Failed ⁵
Hex(0D1C1C)	Ratio: 9.97 Passed ⁶	Ratio: 7.39 Passed ⁶	Ratio: 5.31 AA ¹ AAA 18pt ⁴	Ratio: 3.74 AA 18pt ²	Ratio: 2.61 Failed ⁵	Ratio: 1.80 Failed ⁵	Ratio: 1.29 Failed ⁵		Ratio: 1.20 Failed ⁵	Ratio: 1.20 Failed ⁵
Hex(000001)	Ratio: 11.95 Passed ⁶	Ratio: 8.87 Passed ⁶	Ratio: 6.37 AA ¹ AAA 18pt ⁴	Ratio: 4.48 AA 18pt ²	Ratio: 3.13 AA 18pt ²	Ratio: 2.16 Failed ⁵	Ratio: 1.55 Failed ⁵	Ratio: 1.20 Failed ⁵		Ratio: 1.00 Failed ⁵
Hex(000000)	Ratio: 11.96 Passed ⁶	Ratio: 8.87 Passed ⁶	Ratio: 6.38 AA ¹ AAA 18pt ⁴	Ratio: 4.49 AA 18pt ²	Ratio: 3.13 AA 18pt ²	Ratio: 2.16 Failed ⁵	Ratio: 1.55 Failed ⁵	Ratio: 1.20 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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