

Converting Colors - WCAG Matrix

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

	Hex(000000)	Hex(1B1C1C)	Hex(303030)	Hex(464747)	Hex(5E5E5E)	Hex(767777)	Hex(909191)	Hex(ABABAB)	Hex(C6C6C6)	Hex(E2E2E2)
Hex(000000)		Ratio: 1.23 Failed ⁵	Ratio: 1.59 Failed ⁵	Ratio: 2.25 Failed ⁵	Ratio: 3.24 AA 18pt ²	Ratio: 4.68 AA ¹ AAA 18pt ⁴	Ratio: 6.64 AA ¹ AAA 18pt ⁴	Ratio: 9.14 Passed ⁶	Ratio: 12.29 Passed ⁶	Ratio: 16.21 Passed ⁶
Hex(1B1C1C)	Ratio: 1.23 Failed ⁵		Ratio: 1.29 Failed ⁵	Ratio: 1.83 Failed ⁵	Ratio: 2.63 Failed ⁵	Ratio: 3.80 AA 18pt ²	Ratio: 5.40 AA ¹ AAA 18pt ⁴	Ratio: 7.44 Passed ⁶	Ratio: 10.00 Passed ⁶	Ratio: 13.19 Passed ⁶
Hex(303030)	Ratio: 1.59 Failed ⁵	Ratio: 1.29 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.94 Failed ⁵	Ratio: 4.18 AA 18pt ²	Ratio: 5.75 AA ¹ AAA 18pt ⁴	Ratio: 7.73 Passed ⁶	Ratio: 10.19 Passed ⁶
Hex(464747)	Ratio: 2.25 Failed ⁵	Ratio: 1.83 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 4.06 AA 18pt ²	Ratio: 5.46 AA ¹ AAA 18pt ⁴	Ratio: 7.20 Passed ⁶
Hex(5E5E5E)	Ratio: 3.24 AA 18pt ²	Ratio: 2.63 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 2.82 Failed ⁵	Ratio: 3.80 AA 18pt ²	Ratio: 5.01 AA ¹ AAA 18pt ⁴
Hex(767777)	Ratio: 4.68 AA ¹ AAA 18pt ⁴	Ratio: 3.80 AA 18pt ²	Ratio: 2.94 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 2.63 Failed ⁵	Ratio: 3.47 AA 18pt ²
Hex(909191)	Ratio: 6.64 AA ¹ AAA 18pt ⁴	Ratio: 5.40 AA ¹ AAA 18pt ⁴	Ratio: 4.18 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 2.44 Failed ⁵
Hex(ABABAB)	Ratio: 9.14 Passed ⁶	Ratio: 7.44 Passed ⁶	Ratio: 5.75 AA ¹ AAA 18pt ⁴	Ratio: 4.06 AA 18pt ²	Ratio: 2.82 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.34 Failed ⁵	Ratio: 1.77 Failed ⁵
Hex(C6C6C6)	Ratio: 12.29 Passed ⁶	Ratio: 10.00 Passed ⁶	Ratio: 7.73 Passed ⁶	Ratio: 5.46 AA ¹ AAA 18pt ⁴	Ratio: 3.80 AA 18pt ²	Ratio: 2.63 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 1.34 Failed ⁵		Ratio: 1.32 Failed ⁵
Hex(E2E2E2)	Ratio: 16.21 Passed ⁶	Ratio: 13.19 Passed ⁶	Ratio: 10.19 Passed ⁶	Ratio: 7.20 Passed ⁶	Ratio: 5.01 AA ¹ AAA 18pt ⁴	Ratio: 3.47 AA 18pt ²	Ratio: 2.44 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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