

Converting Colors - WCAG Matrix

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

	Hex(FCFCFC)	Hex(E0E0E0)	Hex(C4C4C4)	Hex(A9A9A9)	Hex(8E8E8E)	Hex(757575)	Hex(5C5C5C)	Hex(444444)	Hex(2E2E2E)	Hex(1A1A1A)
Hex(FCFCFC)		Ratio: 1.29 Failed ⁵	Ratio: 1.70 Failed ⁵	Ratio: 2.29 Failed ⁵	Ratio: 3.19 AA 18pt ²	Ratio: 4.49 AA 18pt ²	Ratio: 6.52 AA ¹ AAA 18pt ⁴	Ratio: 9.49 Passed ⁶	Ratio: 13.24 Passed ⁶	Ratio: 16.96 Passed ⁶
Hex(E0E0E0)	Ratio: 1.29 Failed ⁵		Ratio: 1.32 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 2.48 Failed ⁵	Ratio: 3.49 AA 18pt ²	Ratio: 5.07 AA ¹ AAA 18pt ⁴	Ratio: 7.38 Passed ⁶	Ratio: 10.29 Passed ⁶	Ratio: 13.18 Passed ⁶
Hex(C4C4C4)	Ratio: 1.70 Failed ⁵	Ratio: 1.32 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.88 Failed ⁵	Ratio: 2.64 Failed ⁵	Ratio: 3.83 AA 18pt ²	Ratio: 5.58 AA ¹ AAA 18pt ⁴	Ratio: 7.79 Passed ⁶	Ratio: 9.98 Passed ⁶
Hex(A9A9A9)	Ratio: 2.29 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 2.85 Failed ⁵	Ratio: 4.14 AA 18pt ²	Ratio: 5.78 AA ¹ AAA 18pt ⁴	Ratio: 7.41 Passed ⁶
Hex(8E8E8E)	Ratio: 3.19 AA 18pt ²	Ratio: 2.48 Failed ⁵	Ratio: 1.88 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.97 Failed ⁵	Ratio: 4.15 AA 18pt ²	Ratio: 5.31 AA ¹ AAA 18pt ⁴
Hex(757575)	Ratio: 4.49 AA 18pt ²	Ratio: 3.49 AA 18pt ²	Ratio: 2.64 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.11 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 3.78 AA 18pt ²
Hex(5C5C5C)	Ratio: 6.52 AA ¹ AAA 18pt ⁴	Ratio: 5.07 AA ¹ AAA 18pt ⁴	Ratio: 3.83 AA 18pt ²	Ratio: 2.85 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.46 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 2.60 Failed ⁵
Hex(444444)	Ratio: 9.49 Passed ⁶	Ratio: 7.38 Passed ⁶	Ratio: 5.58 AA ¹ AAA 18pt ⁴	Ratio: 4.14 AA 18pt ²	Ratio: 2.97 Failed ⁵	Ratio: 2.11 Failed ⁵	Ratio: 1.46 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.79 Failed ⁵
Hex(2E2E2E)	Ratio: 13.24 Passed ⁶	Ratio: 10.29 Passed ⁶	Ratio: 7.79 Passed ⁶	Ratio: 5.78 AA ¹ AAA 18pt ⁴	Ratio: 4.15 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.28 Failed ⁵
Hex(1A1A1A)	Ratio: 16.96 Passed ⁶	Ratio: 13.18 Passed ⁶	Ratio: 9.98 Passed ⁶	Ratio: 7.41 Passed ⁶	Ratio: 5.31 AA ¹ AAA 18pt ⁴	Ratio: 3.78 AA 18pt ²	Ratio: 2.60 Failed ⁵	Ratio: 1.79 Failed ⁵	Ratio: 1.28 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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