

Converting Colors - WCAG Matrix

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

	Hex(454545)	Hex(5C5C5C)	Hex(757575)	Hex(8F8F8F)	Hex(A9A9A9)	Hex(C4C4C4)	Hex(E0E0E0)	Hex(FDFDFD)	Hex(FFFFFF)
Hex(454545)		Ratio: 1.43 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.96 Failed ⁵	Ratio: 4.08 AA 18pt ²	Ratio: 5.50 AA ¹ AAA 18pt ⁴	Ratio: 7.26 Passed ⁶	Ratio: 9.43 Passed ⁶	Ratio: 9.59 Passed ⁶
Hex(5C5C5C)	Ratio: 1.43 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 2.85 Failed ⁵	Ratio: 3.83 AA 18pt ²	Ratio: 5.07 AA ¹ AAA 18pt ⁴	Ratio: 6.57 AA ¹ AAA 18pt ⁴	Ratio: 6.69 AA ¹ AAA 18pt ⁴
Hex(757575)	Ratio: 2.08 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 2.64 Failed ⁵	Ratio: 3.49 AA 18pt ²	Ratio: 4.53 AA ¹ AAA 18pt ⁴	Ratio: 4.61 AA ¹ AAA 18pt ⁴
Hex(8F8F8F)	Ratio: 2.96 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 2.45 Failed ⁵	Ratio: 3.18 AA 18pt ²	Ratio: 3.23 AA 18pt ²
Hex(A9A9A9)	Ratio: 4.08 AA 18pt ²	Ratio: 2.85 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 2.31 Failed ⁵	Ratio: 2.35 Failed ⁵
Hex(C4C4C4)	Ratio: 5.50 AA ¹ AAA 18pt ⁴	Ratio: 3.83 AA 18pt ²	Ratio: 2.64 Failed ⁵	Ratio: 1.85 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.32 Failed ⁵	Ratio: 1.71 Failed ⁵	Ratio: 1.74 Failed ⁵
Hex(E0E0E0)	Ratio: 7.26 Passed ⁶	Ratio: 5.07 AA ¹ AAA 18pt ⁴	Ratio: 3.49 AA 18pt ²	Ratio: 2.45 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 1.32 Failed ⁵		Ratio: 1.30 Failed ⁵	Ratio: 1.32 Failed ⁵
Hex(FDFDFD)	Ratio: 9.43 Passed ⁶	Ratio: 6.57 AA ¹ AAA 18pt ⁴	Ratio: 4.53 AA ¹ AAA 18pt ⁴	Ratio: 3.18 AA 18pt ²	Ratio: 2.31 Failed ⁵	Ratio: 1.71 Failed ⁵	Ratio: 1.30 Failed ⁵		Ratio: 1.02 Failed ⁵
Hex(FFFFFF)	Ratio: 9.59 Passed ⁶	Ratio: 6.69 AA ¹ AAA 18pt ⁴	Ratio: 4.61 AA ¹ AAA 18pt ⁴	Ratio: 3.23 AA 18pt ²	Ratio: 2.35 Failed ⁵	Ratio: 1.74 Failed ⁵	Ratio: 1.32 Failed ⁵	Ratio: 1.02 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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