

Converting Colors - WCAG Matrix

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

	Hex(171717)	Hex(2B2B2B)	Hex(414141)	Hex(595959)	Hex(717171)	Hex(8B8B8B)	Hex(A5A5A5)	Hex(C0C0C0)	Hex(DCDCDC)	Hex(F8F8F8)
Hex(171717)		Ratio: 1.27 Failed ⁵	Ratio: 1.76 Failed ⁵	Ratio: 2.56 Failed ⁵	Ratio: 3.67 AA 18pt ²	Ratio: 5.26 AA ¹ AAA 18pt ⁴	Ratio: 7.28 Passed ⁶	Ratio: 9.85 Passed ⁶	Ratio: 13.07 Passed ⁶	Ratio: 16.88 Passed ⁶
Hex(2B2B2B)	Ratio: 1.27 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 2.90 Failed ⁵	Ratio: 4.16 AA 18pt ²	Ratio: 5.75 AA ¹ AAA 18pt ⁴	Ratio: 7.78 Passed ⁶	Ratio: 10.32 Passed ⁶	Ratio: 13.33 Passed ⁶
Hex(414141)	Ratio: 1.76 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.46 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 3.00 AA 18pt ²	Ratio: 4.14 AA 18pt ²	Ratio: 5.61 AA ¹ AAA 18pt ⁴	Ratio: 7.44 Passed ⁶	Ratio: 9.61 Passed ⁶
Hex(595959)	Ratio: 2.56 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 1.46 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.06 Failed ⁵	Ratio: 2.84 Failed ⁵	Ratio: 3.85 AA 18pt ²	Ratio: 5.11 AA ¹ AAA 18pt ⁴	Ratio: 6.60 AA ¹ AAA 18pt ⁴
Hex(717171)	Ratio: 3.67 AA 18pt ²	Ratio: 2.90 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 2.68 Failed ⁵	Ratio: 3.56 AA 18pt ²	Ratio: 4.60 AA ¹ AAA 18pt ⁴
Hex(8B8B8B)	Ratio: 5.26 AA ¹ AAA 18pt ⁴	Ratio: 4.16 AA 18pt ²	Ratio: 3.00 AA 18pt ²	Ratio: 2.06 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.48 Failed ⁵	Ratio: 3.21 AA 18pt ²
Hex(A5A5A5)	Ratio: 7.28 Passed ⁶	Ratio: 5.75 AA ¹ AAA 18pt ⁴	Ratio: 4.14 AA 18pt ²	Ratio: 2.84 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.80 Failed ⁵	Ratio: 2.32 Failed ⁵
Hex(C0C0C0)	Ratio: 9.85 Passed ⁶	Ratio: 7.78 Passed ⁶	Ratio: 5.61 AA ¹ AAA 18pt ⁴	Ratio: 3.85 AA 18pt ²	Ratio: 2.68 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.33 Failed ⁵	Ratio: 1.71 Failed ⁵
Hex(DCDCDC)	Ratio: 13.07 Passed ⁶	Ratio: 10.32 Passed ⁶	Ratio: 7.44 Passed ⁶	Ratio: 5.11 AA ¹ AAA 18pt ⁴	Ratio: 3.56 AA 18pt ²	Ratio: 2.48 Failed ⁵	Ratio: 1.80 Failed ⁵	Ratio: 1.33 Failed ⁵		Ratio: 1.29 Failed ⁵
Hex(F8F8F8)	Ratio: 16.88 Passed ⁶	Ratio: 13.33 Passed ⁶	Ratio: 9.61 Passed ⁶	Ratio: 6.60 AA ¹ AAA 18pt ⁴	Ratio: 4.60 AA ¹ AAA 18pt ⁴	Ratio: 3.21 AA 18pt ²	Ratio: 2.32 Failed ⁵	Ratio: 1.71 Failed ⁵	Ratio: 1.29 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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