

Converting Colors - WCAG Matrix

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

	Hex(F1F1F1)	Hex(D4D4D4)	Hex(B9B9B9)	Hex(9E9E9E)	Hex(848484)	Hex(6A6A6A)	Hex(525252)	Hex(3B3B3B)	Hex(262626)	Hex(111111)
Hex(F1F1F1)		Ratio: 1.31 Failed ⁵	Ratio: 1.74 Failed ⁵	Ratio: 2.37 Failed ⁵	Ratio: 3.31 AA 18pt ²	Ratio: 4.79 AA ¹ AAA 18pt ⁴	Ratio: 6.92 AA ¹ AAA 18pt ⁴	Ratio: 9.92 Passed ⁶	Ratio: 13.40 Passed ⁶	Ratio: 16.72 Passed ⁶
Hex(D4D4D4)	Ratio: 1.31 Failed ⁵		Ratio: 1.32 Failed ⁵	Ratio: 1.81 Failed ⁵	Ratio: 2.52 Failed ⁵	Ratio: 3.65 AA 18pt ²	Ratio: 5.27 AA ¹ AAA 18pt ⁴	Ratio: 7.56 Passed ⁶	Ratio: 10.21 Passed ⁶	Ratio: 12.74 Passed ⁶
Hex(B9B9B9)	Ratio: 1.74 Failed ⁵	Ratio: 1.32 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.91 Failed ⁵	Ratio: 2.76 Failed ⁵	Ratio: 3.98 AA 18pt ²	Ratio: 5.71 AA ¹ AAA 18pt ⁴	Ratio: 7.71 Passed ⁶	Ratio: 9.62 Passed ⁶
Hex(9E9E9E)	Ratio: 2.37 Failed ⁵	Ratio: 1.81 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 2.92 Failed ⁵	Ratio: 4.18 AA 18pt ²	Ratio: 5.65 AA ¹ AAA 18pt ⁴	Ratio: 7.05 Passed ⁶
Hex(848484)	Ratio: 3.31 AA 18pt ²	Ratio: 2.52 Failed ⁵	Ratio: 1.91 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 2.99 Failed ⁵	Ratio: 4.05 AA 18pt ²	Ratio: 5.05 AA ¹ AAA 18pt ⁴
Hex(6A6A6A)	Ratio: 4.79 AA ¹ AAA 18pt ⁴	Ratio: 3.65 AA 18pt ²	Ratio: 2.76 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 2.80 Failed ⁵	Ratio: 3.49 AA 18pt ²
Hex(525252)	Ratio: 6.92 AA ¹ AAA 18pt ⁴	Ratio: 5.27 AA ¹ AAA 18pt ⁴	Ratio: 3.98 AA 18pt ²	Ratio: 2.92 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 1.94 Failed ⁵	Ratio: 2.42 Failed ⁵
Hex(3B3B3B)	Ratio: 9.92 Passed ⁶	Ratio: 7.56 Passed ⁶	Ratio: 5.71 AA ¹ AAA 18pt ⁴	Ratio: 4.18 AA 18pt ²	Ratio: 2.99 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.69 Failed ⁵
Hex(262626)	Ratio: 13.40 Passed ⁶	Ratio: 10.21 Passed ⁶	Ratio: 7.71 Passed ⁶	Ratio: 5.65 AA ¹ AAA 18pt ⁴	Ratio: 4.05 AA 18pt ²	Ratio: 2.80 Failed ⁵	Ratio: 1.94 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.25 Failed ⁵
Hex(111111)	Ratio: 16.72 Passed ⁶	Ratio: 12.74 Passed ⁶	Ratio: 9.62 Passed ⁶	Ratio: 7.05 Passed ⁶	Ratio: 5.05 AA ¹ AAA 18pt ⁴	Ratio: 3.49 AA 18pt ²	Ratio: 2.42 Failed ⁵	Ratio: 1.69 Failed ⁵	Ratio: 1.25 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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