

Converting Colors - WCAG Matrix

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

	Hex(D3D3D3)	Hex(B7B7B7)	Hex(9D9D9D)	Hex(828282)	Hex(696969)	Hex(515151)	Hex(3A3A3A)	Hex(252525)	Hex(101010)	Hex(FFFFFF)
Hex(D3D3D3)		Ratio: 1.34 Failed ⁵	Ratio: 1.81 Failed ⁵	Ratio: 2.57 Failed ⁵	Ratio: 3.67 AA 18pt ²	Ratio: 5.30 AA ¹ AAA 18pt ⁴	Ratio: 7.60 Passed ⁶	Ratio: 10.24 Passed ⁶	Ratio: 12.71 Passed ⁶	Ratio: 1.50 Failed ⁵
Hex(B7B7B7)	Ratio: 1.34 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.92 Failed ⁵	Ratio: 2.74 Failed ⁵	Ratio: 3.96 AA 18pt ²	Ratio: 5.67 AA ¹ AAA 18pt ⁴	Ratio: 7.64 Passed ⁶	Ratio: 9.49 Passed ⁶	Ratio: 2.01 Failed ⁵
Hex(9D9D9D)	Ratio: 1.81 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 2.93 Failed ⁵	Ratio: 4.19 AA 18pt ²	Ratio: 5.65 AA ¹ AAA 18pt ⁴	Ratio: 7.02 Passed ⁶	Ratio: 2.71 Failed ⁵
Hex(828282)	Ratio: 2.57 Failed ⁵	Ratio: 1.92 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 2.96 Failed ⁵	Ratio: 3.99 AA 18pt ²	Ratio: 4.95 AA ¹ AAA 18pt ⁴	Ratio: 3.84 AA 18pt ²
Hex(696969)	Ratio: 3.67 AA 18pt ²	Ratio: 2.74 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 2.79 Failed ⁵	Ratio: 3.47 AA 18pt ²	Ratio: 5.49 AA ¹ AAA 18pt ⁴
Hex(515151)	Ratio: 5.30 AA ¹ AAA 18pt ⁴	Ratio: 3.96 AA 18pt ²	Ratio: 2.93 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 1.93 Failed ⁵	Ratio: 2.40 Failed ⁵	Ratio: 7.94 Passed ⁶
Hex(3A3A3A)	Ratio: 7.60 Passed ⁶	Ratio: 5.67 AA ¹ AAA 18pt ⁴	Ratio: 4.19 AA 18pt ²	Ratio: 2.96 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.67 Failed ⁵	Ratio: 11.37 Passed ⁶
Hex(252525)	Ratio: 10.24 Passed ⁶	Ratio: 7.64 Passed ⁶	Ratio: 5.65 AA ¹ AAA 18pt ⁴	Ratio: 3.99 AA 18pt ²	Ratio: 2.79 Failed ⁵	Ratio: 1.93 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.24 Failed ⁵	Ratio: 15.33 Passed ⁶
Hex(101010)	Ratio: 12.71 Passed ⁶	Ratio: 9.49 Passed ⁶	Ratio: 7.02 Passed ⁶	Ratio: 4.95 AA ¹ AAA 18pt ⁴	Ratio: 3.47 AA 18pt ²	Ratio: 2.40 Failed ⁵	Ratio: 1.67 Failed ⁵	Ratio: 1.24 Failed ⁵		Ratio: 19.03 Passed ⁶
Hex(FFFFFF)	Ratio: 1.50 Failed ⁵	Ratio: 2.01 Failed ⁵	Ratio: 2.71 Failed ⁵	Ratio: 3.84 AA 18pt ²	Ratio: 5.49 AA ¹ AAA 18pt ⁴	Ratio: 7.94 Passed ⁶	Ratio: 11.37 Passed ⁶	Ratio: 15.33 Passed ⁶	Ratio: 19.03 Passed ⁶	

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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