

Converting Colors - WCAG Matrix

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

	Hex(D6D4D4)	Hex(BAB8B8)	Hex(9F9D9D)	Hex(858383)	Hex(6C6A6A)	Hex(545252)	Hex(3D3B3B)	Hex(272525)	Hex(121111)	Hex(000000)
Hex(D6D4D4)		Ratio: 1.34 Failed ⁵	Ratio: 1.83 Failed ⁵	Ratio: 2.55 Failed ⁵	Ratio: 3.64 AA 18pt ²	Ratio: 5.26 AA ¹ AAA 18pt ⁴	Ratio: 7.54 Passed ⁶	Ratio: 10.33 Passed ⁶	Ratio: 12.77 Passed ⁶	Ratio: 14.23 Passed ⁶
Hex(BAB8B8)	Ratio: 1.34 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.91 Failed ⁵	Ratio: 2.72 Failed ⁵	Ratio: 3.93 AA 18pt ²	Ratio: 5.64 AA ¹ AAA 18pt ⁴	Ratio: 7.72 Passed ⁶	Ratio: 9.55 Passed ⁶	Ratio: 10.64 Passed ⁶
Hex(9F9D9D)	Ratio: 1.83 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 1.99 Failed ⁵	Ratio: 2.88 Failed ⁵	Ratio: 4.12 AA 18pt ²	Ratio: 5.65 AA ¹ AAA 18pt ⁴	Ratio: 6.99 AA ¹ AAA 18pt ⁴	Ratio: 7.78 Passed ⁶
Hex(858383)	Ratio: 2.55 Failed ⁵	Ratio: 1.91 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.06 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 4.04 AA 18pt ²	Ratio: 5.00 AA ¹ AAA 18pt ⁴	Ratio: 5.57 AA ¹ AAA 18pt ⁴
Hex(6C6A6A)	Ratio: 3.64 AA 18pt ²	Ratio: 2.72 Failed ⁵	Ratio: 1.99 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 2.84 Failed ⁵	Ratio: 3.51 AA 18pt ²	Ratio: 3.91 AA 18pt ²
Hex(545252)	Ratio: 5.26 AA ¹ AAA 18pt ⁴	Ratio: 3.93 AA 18pt ²	Ratio: 2.88 Failed ⁵	Ratio: 2.06 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 2.43 Failed ⁵	Ratio: 2.71 Failed ⁵
Hex(3D3B3B)	Ratio: 7.54 Passed ⁶	Ratio: 5.64 AA ¹ AAA 18pt ⁴	Ratio: 4.12 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.69 Failed ⁵	Ratio: 1.89 Failed ⁵
Hex(272525)	Ratio: 10.33 Passed ⁶	Ratio: 7.72 Passed ⁶	Ratio: 5.65 AA ¹ AAA 18pt ⁴	Ratio: 4.04 AA 18pt ²	Ratio: 2.84 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.24 Failed ⁵	Ratio: 1.38 Failed ⁵
Hex(121111)	Ratio: 12.77 Passed ⁶	Ratio: 9.55 Passed ⁶	Ratio: 6.99 AA ¹ AAA 18pt ⁴	Ratio: 5.00 AA ¹ AAA 18pt ⁴	Ratio: 3.51 AA 18pt ²	Ratio: 2.43 Failed ⁵	Ratio: 1.69 Failed ⁵	Ratio: 1.24 Failed ⁵		Ratio: 1.11 Failed ⁵
Hex(000000)	Ratio: 14.23 Passed ⁶	Ratio: 10.64 Passed ⁶	Ratio: 7.78 Passed ⁶	Ratio: 5.57 AA ¹ AAA 18pt ⁴	Ratio: 3.91 AA 18pt ²	Ratio: 2.71 Failed ⁵	Ratio: 1.89 Failed ⁵	Ratio: 1.38 Failed ⁵	Ratio: 1.11 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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