

Converting Colors - WCAG Matrix

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

	Hex(FFFCFC)	Hex(E2E0E0)	Hex(C6C4C4)	Hex(ABA9A9)	Hex(918E8E)	Hex(777575)	Hex(5E5C5C)	Hex(474545)	Hex(302E2E)	Hex(1B1A1A)
Hex(FFFCFC)		Ratio: 1.29 Failed ⁵	Ratio: 1.70 Failed ⁵	Ratio: 2.29 Failed ⁵	Ratio: 3.18 AA 18pt ²	Ratio: 4.49 AA 18pt ²	Ratio: 6.51 AA ¹ AAA 18pt ⁴	Ratio: 9.33 Passed ⁶	Ratio: 13.23 Passed ⁶	Ratio: 17.02 Passed ⁶
Hex(E2E0E0)	Ratio: 1.29 Failed ⁵		Ratio: 1.32 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 2.47 Failed ⁵	Ratio: 3.48 AA 18pt ²	Ratio: 5.05 AA ¹ AAA 18pt ⁴	Ratio: 7.24 Passed ⁶	Ratio: 10.27 Passed ⁶	Ratio: 13.21 Passed ⁶
Hex(C6C4C4)	Ratio: 1.70 Failed ⁵	Ratio: 1.32 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.64 Failed ⁵	Ratio: 3.83 AA 18pt ²	Ratio: 5.48 AA ¹ AAA 18pt ⁴	Ratio: 7.77 Passed ⁶	Ratio: 10.00 Passed ⁶
Hex(ABA9A9)	Ratio: 2.29 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 2.84 Failed ⁵	Ratio: 4.07 AA 18pt ²	Ratio: 5.77 AA ¹ AAA 18pt ⁴	Ratio: 7.43 Passed ⁶
Hex(918E8E)	Ratio: 3.18 AA 18pt ²	Ratio: 2.47 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.93 Failed ⁵	Ratio: 4.15 AA 18pt ²	Ratio: 5.35 AA ¹ AAA 18pt ⁴
Hex(777575)	Ratio: 4.49 AA 18pt ²	Ratio: 3.48 AA 18pt ²	Ratio: 2.64 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 3.79 AA 18pt ²
Hex(5E5C5C)	Ratio: 6.51 AA ¹ AAA 18pt ⁴	Ratio: 5.05 AA ¹ AAA 18pt ⁴	Ratio: 3.83 AA 18pt ²	Ratio: 2.84 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 2.61 Failed ⁵
Hex(474545)	Ratio: 9.33 Passed ⁶	Ratio: 7.24 Passed ⁶	Ratio: 5.48 AA ¹ AAA 18pt ⁴	Ratio: 4.07 AA 18pt ²	Ratio: 2.93 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.82 Failed ⁵
Hex(302E2E)	Ratio: 13.23 Passed ⁶	Ratio: 10.27 Passed ⁶	Ratio: 7.77 Passed ⁶	Ratio: 5.77 AA ¹ AAA 18pt ⁴	Ratio: 4.15 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.29 Failed ⁵
Hex(1B1A1A)	Ratio: 17.02 Passed ⁶	Ratio: 13.21 Passed ⁶	Ratio: 10.00 Passed ⁶	Ratio: 7.43 Passed ⁶	Ratio: 5.35 AA ¹ AAA 18pt ⁴	Ratio: 3.79 AA 18pt ²	Ratio: 2.61 Failed ⁵	Ratio: 1.82 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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