

Converting Colors - WCAG Matrix

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

	Hex(FFFFFF)	Hex(E4E2E4)	Hex(C8C6C8)	Hex(ACABAC)	Hex(929092)	Hex(787678)	Hex(5F5E5F)	Hex(484648)	Hex(313031)	Hex(1C1B1C)
Hex(FFFFFF)		Ratio: 1.28 Failed ⁵	Ratio: 1.69 Failed ⁵	Ratio: 2.27 Failed ⁵	Ratio: 3.15 AA 18pt ²	Ratio: 4.48 AA 18pt ²	Ratio: 6.42 AA ¹ AAA 18pt ⁴	Ratio: 9.30 Passed ⁶	Ratio: 13.06 Passed ⁶	Ratio: 17.07 Passed ⁶
Hex(E4E2E4)	Ratio: 1.28 Failed ⁵		Ratio: 1.32 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 2.46 Failed ⁵	Ratio: 3.50 AA 18pt ²	Ratio: 5.01 AA ¹ AAA 18pt ⁴	Ratio: 7.26 Passed ⁶	Ratio: 10.20 Passed ⁶	Ratio: 13.33 Passed ⁶
Hex(C8C6C8)	Ratio: 1.69 Failed ⁵	Ratio: 1.32 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.65 Failed ⁵	Ratio: 3.80 AA 18pt ²	Ratio: 5.51 AA ¹ AAA 18pt ⁴	Ratio: 7.74 Passed ⁶	Ratio: 10.11 Passed ⁶
Hex(ACABAC)	Ratio: 2.27 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.97 Failed ⁵	Ratio: 2.82 Failed ⁵	Ratio: 4.09 AA 18pt ²	Ratio: 5.74 AA ¹ AAA 18pt ⁴	Ratio: 7.50 Passed ⁶
Hex(929092)	Ratio: 3.15 AA 18pt ²	Ratio: 2.46 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 4.15 AA 18pt ²	Ratio: 5.42 AA ¹ AAA 18pt ⁴
Hex(787678)	Ratio: 4.48 AA 18pt ²	Ratio: 3.50 AA 18pt ²	Ratio: 2.65 Failed ⁵	Ratio: 1.97 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.92 Failed ⁵	Ratio: 3.81 AA 18pt ²
Hex(5F5E5F)	Ratio: 6.42 AA ¹ AAA 18pt ⁴	Ratio: 5.01 AA ¹ AAA 18pt ⁴	Ratio: 3.80 AA 18pt ²	Ratio: 2.82 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.66 Failed ⁵
Hex(484648)	Ratio: 9.30 Passed ⁶	Ratio: 7.26 Passed ⁶	Ratio: 5.51 AA ¹ AAA 18pt ⁴	Ratio: 4.09 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 1.84 Failed ⁵
Hex(313031)	Ratio: 13.06 Passed ⁶	Ratio: 10.20 Passed ⁶	Ratio: 7.74 Passed ⁶	Ratio: 5.74 AA ¹ AAA 18pt ⁴	Ratio: 4.15 AA 18pt ²	Ratio: 2.92 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.31 Failed ⁵
Hex(1C1B1C)	Ratio: 17.07 Passed ⁶	Ratio: 13.33 Passed ⁶	Ratio: 10.11 Passed ⁶	Ratio: 7.50 Passed ⁶	Ratio: 5.42 AA ¹ AAA 18pt ⁴	Ratio: 3.81 AA 18pt ²	Ratio: 2.66 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 1.31 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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