

Converting Colors - WCAG Matrix

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

	Hex(1B1B1C)	Hex(303031)	Hex(464647)	Hex(5E5E5F)	Hex(767678)	Hex(909091)	Hex(AAAAC)	Hex(C6C6C7)	Hex(E2E2E3)	Hex(FEFEFF)
Hex(1B1B1C)		Ratio: 1.31 Failed ⁵	Ratio: 1.83 Failed ⁵	Ratio: 2.66 Failed ⁵	Ratio: 3.80 AA 18pt ²	Ratio: 5.40 AA ¹ AAA 18pt ⁴	Ratio: 7.42 Passed ⁶	Ratio: 10.08 Passed ⁶	Ratio: 13.29 Passed ⁶	Ratio: 17.07 Passed ⁶
Hex(303031)	Ratio: 1.31 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 2.91 Failed ⁵	Ratio: 4.13 AA 18pt ²	Ratio: 5.68 AA ¹ AAA 18pt ⁴	Ratio: 7.72 Passed ⁶	Ratio: 10.18 Passed ⁶	Ratio: 13.08 Passed ⁶
Hex(464647)	Ratio: 1.83 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.46 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.96 Failed ⁵	Ratio: 4.07 AA 18pt ²	Ratio: 5.52 AA ¹ AAA 18pt ⁴	Ratio: 7.28 Passed ⁶	Ratio: 9.35 Passed ⁶
Hex(5E5E5F)	Ratio: 2.66 Failed ⁵	Ratio: 2.04 Failed ⁵	Ratio: 1.46 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 2.79 Failed ⁵	Ratio: 3.79 AA 18pt ²	Ratio: 5.00 AA ¹ AAA 18pt ⁴	Ratio: 6.43 AA ¹ AAA 18pt ⁴
Hex(767678)	Ratio: 3.80 AA 18pt ²	Ratio: 2.91 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 2.66 Failed ⁵	Ratio: 3.50 AA 18pt ²	Ratio: 4.50 AA ¹ AAA 18pt ⁴
Hex(909091)	Ratio: 5.40 AA ¹ AAA 18pt ⁴	Ratio: 4.13 AA 18pt ²	Ratio: 2.96 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.46 Failed ⁵	Ratio: 3.16 AA 18pt ²
Hex(AAAAC)	Ratio: 7.42 Passed ⁶	Ratio: 5.68 AA ¹ AAA 18pt ⁴	Ratio: 4.07 AA 18pt ²	Ratio: 2.79 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.36 Failed ⁵	Ratio: 1.79 Failed ⁵	Ratio: 2.30 Failed ⁵
Hex(C6C6C7)	Ratio: 10.08 Passed ⁶	Ratio: 7.72 Passed ⁶	Ratio: 5.52 AA ¹ AAA 18pt ⁴	Ratio: 3.79 AA 18pt ²	Ratio: 2.66 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 1.36 Failed ⁵		Ratio: 1.32 Failed ⁵	Ratio: 1.69 Failed ⁵
Hex(E2E2E3)	Ratio: 13.29 Passed ⁶	Ratio: 10.18 Passed ⁶	Ratio: 7.28 Passed ⁶	Ratio: 5.00 AA ¹ AAA 18pt ⁴	Ratio: 3.50 AA 18pt ²	Ratio: 2.46 Failed ⁵	Ratio: 1.79 Failed ⁵	Ratio: 1.32 Failed ⁵		Ratio: 1.28 Failed ⁵
Hex(FEFEFF)	Ratio: 17.07 Passed ⁶	Ratio: 13.08 Passed ⁶	Ratio: 9.35 Passed ⁶	Ratio: 6.43 AA ¹ AAA 18pt ⁴	Ratio: 4.50 AA ¹ AAA 18pt ⁴	Ratio: 3.16 AA 18pt ²	Ratio: 2.30 Failed ⁵	Ratio: 1.69 Failed ⁵	Ratio: 1.28 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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