

Converting Colors - WCAG Matrix

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

	Hex(001A1A)	Hex(172E2F)	Hex(2D4545)	Hex(445C5C)	Hex(5C7575)	Hex(758F8F)	Hex(8FA9A9)	Hex(AAC4C4)	Hex(C5E0E0)	Hex(E1FDFD)
Hex(001A1A)		Ratio: 1.26 Failed ⁵	Ratio: 1.76 Failed ⁵	Ratio: 2.52 Failed ⁵	Ratio: 3.66 AA 18pt ²	Ratio: 5.23 AA ¹ AAA 18pt ⁴	Ratio: 7.24 Passed ⁶	Ratio: 9.81 Passed ⁶	Ratio: 13.00 Passed ⁶	Ratio: 16.92 Passed ⁶
Hex(172E2F)	Ratio: 1.26 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 2.00 Failed ⁵	Ratio: 2.90 Failed ⁵	Ratio: 4.14 AA 18pt ² AAA 18pt ⁴	Ratio: 5.73 AA ¹ AAA 18pt ⁴	Ratio: 7.77 Passed ⁶	Ratio: 10.29 Passed ⁶	Ratio: 13.40 Passed ⁶
Hex(2D4545)	Ratio: 1.76 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.97 Failed ⁵	Ratio: 4.11 AA 18pt ² AAA 18pt ⁴	Ratio: 5.57 AA ¹ AAA 18pt ⁴	Ratio: 7.38 Passed ⁶	Ratio: 9.60 Passed ⁶
Hex(445C5C)	Ratio: 2.52 Failed ⁵	Ratio: 2.00 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 2.87 Failed ⁵	Ratio: 3.89 AA 18pt ² AAA 18pt ⁴	Ratio: 5.16 AA ¹ AAA 18pt ⁴	Ratio: 6.71 AA ¹ AAA 18pt ⁴
Hex(5C7575)	Ratio: 3.66 AA 18pt ²	Ratio: 2.90 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 2.68 Failed ⁵	Ratio: 3.55 AA 18pt ² AAA 18pt ⁴	Ratio: 4.62 AA ¹ AAA 18pt ⁴
Hex(758F8F)	Ratio: 5.23 AA ¹ AAA 18pt ⁴	Ratio: 4.14 AA 18pt ²	Ratio: 2.97 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.48 Failed ⁵	Ratio: 3.23 AA 18pt ²
Hex(8FA9A9)	Ratio: 7.24 Passed ⁶	Ratio: 5.73 AA ¹ AAA 18pt ⁴	Ratio: 4.11 AA 18pt ²	Ratio: 2.87 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.80 Failed ⁵	Ratio: 2.34 Failed ⁵
Hex(AAC4C4)	Ratio: 9.81 Passed ⁶	Ratio: 7.77 Passed ⁶	Ratio: 5.57 AA ¹ AAA 18pt ⁴	Ratio: 3.89 AA 18pt ²	Ratio: 2.68 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.33 Failed ⁵	Ratio: 1.73 Failed ⁵
Hex(C5E0E0)	Ratio: 13.00 Passed ⁶	Ratio: 10.29 Passed ⁶	Ratio: 7.38 Passed ⁶	Ratio: 5.16 AA ¹ AAA 18pt ⁴	Ratio: 3.55 AA 18pt ²	Ratio: 2.48 Failed ⁵	Ratio: 1.80 Failed ⁵	Ratio: 1.33 Failed ⁵		Ratio: 1.30 Failed ⁵
Hex(E1FDFD)	Ratio: 16.92 Passed ⁶	Ratio: 13.40 Passed ⁶	Ratio: 9.60 Passed ⁶	Ratio: 6.71 AA ¹ AAA 18pt ⁴	Ratio: 4.62 AA ¹ AAA 18pt ⁴	Ratio: 3.23 AA 18pt ²	Ratio: 2.34 Failed ⁵	Ratio: 1.73 Failed ⁵	Ratio: 1.30 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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