

Converting Colors - WCAG Matrix

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

	Hex(E9E9FD)	Hex(CDCDE1)	Hex(B1B2C5)	Hex(9797AA)	Hex(7D7D8F)	Hex(646476)	Hex(4C4C5D)	Hex(353645)	Hex(1F212F)	Hex(09091A)
Hex(E9E9FD)		Ratio: 1.31 Failed ⁵	Ratio: 1.75 Failed ⁵	Ratio: 2.40 Failed ⁵	Ratio: 3.37 AA 18pt ²	Ratio: 4.84 AA ¹ AAA 18pt ⁴	Ratio: 7.02 Passed ⁶	Ratio: 9.94 Passed ⁶	Ratio: 13.32 Passed ⁶	Ratio: 16.46 Passed ⁶
Hex(CDCDE1)	Ratio: 1.31 Failed ⁵		Ratio: 1.34 Failed ⁵	Ratio: 1.83 Failed ⁵	Ratio: 2.58 Failed ⁵	Ratio: 3.70 AA 18pt ²	Ratio: 5.37 AA ¹ AAA 18pt ⁴	Ratio: 7.60 Passed ⁶	Ratio: 10.19 Passed ⁶	Ratio: 12.59 Passed ⁶
Hex(B1B2C5)	Ratio: 1.75 Failed ⁵	Ratio: 1.34 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.93 Failed ⁵	Ratio: 2.77 Failed ⁵	Ratio: 4.02 AA 18pt ²	Ratio: 5.69 AA ¹ AAA 18pt ⁴	Ratio: 7.63 Passed ⁶	Ratio: 9.43 Passed ⁶
Hex(9797AA)	Ratio: 2.40 Failed ⁵	Ratio: 1.83 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 2.93 Failed ⁵	Ratio: 4.15 AA 18pt ²	Ratio: 5.56 AA ¹ AAA 18pt ⁴	Ratio: 6.87 AA ¹ AAA 18pt ⁴
Hex(7D7D8F)	Ratio: 3.37 AA 18pt ²	Ratio: 2.58 Failed ⁵	Ratio: 1.93 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.95 Failed ⁵	Ratio: 3.95 AA 18pt ²	Ratio: 4.88 AA ¹ AAA 18pt ⁴
Hex(646476)	Ratio: 4.84 AA ¹ AAA 18pt ⁴	Ratio: 3.70 AA 18pt ²	Ratio: 2.77 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 2.75 Failed ⁵	Ratio: 3.40 AA 18pt ²
Hex(4C4C5D)	Ratio: 7.02 Passed ⁶	Ratio: 5.37 AA ¹ AAA 18pt ⁴	Ratio: 4.02 AA 18pt ²	Ratio: 2.93 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.90 Failed ⁵	Ratio: 2.35 Failed ⁵
Hex(353645)	Ratio: 9.94 Passed ⁶	Ratio: 7.60 Passed ⁶	Ratio: 5.69 AA ¹ AAA 18pt ⁴	Ratio: 4.15 AA 18pt ²	Ratio: 2.95 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.34 Failed ⁵	Ratio: 1.66 Failed ⁵
Hex(1F212F)	Ratio: 13.32 Passed ⁶	Ratio: 10.19 Passed ⁶	Ratio: 7.63 Passed ⁶	Ratio: 5.56 AA ¹ AAA 18pt ⁴	Ratio: 3.95 AA 18pt ²	Ratio: 2.75 Failed ⁵	Ratio: 1.90 Failed ⁵	Ratio: 1.34 Failed ⁵		Ratio: 1.24 Failed ⁵
Hex(09091A)	Ratio: 16.46 Passed ⁶	Ratio: 12.59 Passed ⁶	Ratio: 9.43 Passed ⁶	Ratio: 6.87 AA ¹ AAA 18pt ⁴	Ratio: 4.88 AA ¹ AAA 18pt ⁴	Ratio: 3.40 AA 18pt ²	Ratio: 2.35 Failed ⁵	Ratio: 1.66 Failed ⁵	Ratio: 1.24 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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