

Converting Colors - WCAG Matrix

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

	Hex(001F31)	Hex(193448)	Hex(314C5F)	Hex(496178)	Hex(627A92)	Hex(7C94AC)	Hex(96B0C8)	Hex(B1CBE4)	Hex(CDE7FF)	Hex(E9FFFF)
Hex(001F31)		Ratio: 1.31 Failed ⁵	Ratio: 1.88 Failed ⁵	Ratio: 2.63 Failed ⁵	Ratio: 3.80 AA 18pt ²	Ratio: 5.39 AA ¹ AAA 18pt ⁴	Ratio: 7.53 Passed ⁶	Ratio: 10.10 Passed ⁶	Ratio: 13.28 Passed ⁶	Ratio: 16.30 Passed ⁶
Hex(193448)	Ratio: 1.31 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.01 Failed ⁵	Ratio: 2.90 Failed ⁵	Ratio: 4.11 AA 18pt ²	Ratio: 5.74 AA ¹ AAA 18pt ⁴	Ratio: 7.71 Passed ⁶	Ratio: 10.13 Passed ⁶	Ratio: 12.43 Passed ⁶
Hex(314C5F)	Ratio: 1.88 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 2.87 Failed ⁵	Ratio: 4.01 AA 18pt ²	Ratio: 5.38 AA ¹ AAA 18pt ⁴	Ratio: 7.07 Passed ⁶	Ratio: 8.68 Passed ⁶
Hex(496178)	Ratio: 2.63 Failed ⁵	Ratio: 2.01 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 2.86 Failed ⁵	Ratio: 3.84 AA 18pt ²	Ratio: 5.05 AA ¹ AAA 18pt ⁴	Ratio: 6.19 AA ¹ AAA 18pt ⁴
Hex(627A92)	Ratio: 3.80 AA 18pt ²	Ratio: 2.90 Failed ⁵	Ratio: 2.03 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 2.66 Failed ⁵	Ratio: 3.49 AA 18pt ²	Ratio: 4.28 AA 18pt ²
Hex(7C94AC)	Ratio: 5.39 AA ¹ AAA 18pt ⁴	Ratio: 4.11 AA 18pt ²	Ratio: 2.87 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.46 Failed ⁵	Ratio: 3.02 AA 18pt ²
Hex(96B0C8)	Ratio: 7.53 Passed ⁶	Ratio: 5.74 AA ¹ AAA 18pt ⁴	Ratio: 4.01 AA 18pt ²	Ratio: 2.86 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.34 Failed ⁵	Ratio: 1.76 Failed ⁵	Ratio: 2.16 Failed ⁵
Hex(B1CBE4)	Ratio: 10.10 Passed ⁶	Ratio: 7.71 Passed ⁶	Ratio: 5.38 AA ¹ AAA 18pt ⁴	Ratio: 3.84 AA 18pt ²	Ratio: 2.66 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 1.34 Failed ⁵		Ratio: 1.31 Failed ⁵	Ratio: 1.61 Failed ⁵
Hex(CDE7FF)	Ratio: 13.28 Passed ⁶	Ratio: 10.13 Passed ⁶	Ratio: 7.07 Passed ⁶	Ratio: 5.05 AA ¹ AAA 18pt ⁴	Ratio: 3.49 AA 18pt ²	Ratio: 2.46 Failed ⁵	Ratio: 1.76 Failed ⁵	Ratio: 1.31 Failed ⁵		Ratio: 1.23 Failed ⁵
Hex(E9FFFF)	Ratio: 16.30 Passed ⁶	Ratio: 12.43 Passed ⁶	Ratio: 8.68 Passed ⁶	Ratio: 6.19 AA ¹ AAA 18pt ⁴	Ratio: 4.28 AA 18pt ²	Ratio: 3.02 AA 18pt ²	Ratio: 2.16 Failed ⁵	Ratio: 1.61 Failed ⁵	Ratio: 1.23 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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