

Converting Colors - WCAG Matrix

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

	Hex(66F0FF)	Hex(42D3E2)	Hex(00B7C6)	Hex(009CAB)	Hex(008290)	Hex(006877)	Hex(004F5E)	Hex(003846)	Hex(002430)	Hex(00011C)
Hex(66F0FF)		Ratio: 1.33 Failed ⁵	Ratio: 1.80 Failed ⁵	Ratio: 2.44 Failed ⁵	Ratio: 3.37 AA 18pt ²	Ratio: 4.77 AA ¹ AAA 18pt ⁴	Ratio: 6.79 AA ¹ AAA 18pt ⁴	Ratio: 9.35 Passed ⁶	Ratio: 11.95 Passed ⁶	Ratio: 15.15 Passed ⁶
Hex(42D3E2)	Ratio: 1.33 Failed ⁵		Ratio: 1.36 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 2.53 Failed ⁵	Ratio: 3.59 AA 18pt ²	Ratio: 5.11 AA ¹ AAA 18pt ⁴	Ratio: 7.04 Passed ⁶	Ratio: 8.99 Passed ⁶	Ratio: 11.41 Passed ⁶
Hex(00B7C6)	Ratio: 1.80 Failed ⁵	Ratio: 1.36 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.65 Failed ⁵	Ratio: 3.77 AA 18pt ²	Ratio: 5.19 AA ¹ AAA 18pt ⁴	Ratio: 6.63 AA ¹ AAA 18pt ⁴	Ratio: 8.41 Passed ⁶
Hex(009CAB)	Ratio: 2.44 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 2.78 Failed ⁵	Ratio: 3.83 AA 18pt ²	Ratio: 4.90 AA ¹ AAA 18pt ⁴	Ratio: 6.21 AA ¹ AAA 18pt ⁴
Hex(008290)	Ratio: 3.37 AA 18pt ²	Ratio: 2.53 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 2.78 Failed ⁵	Ratio: 3.55 AA 18pt ²	Ratio: 4.50 AA ¹ AAA 18pt ⁴
Hex(006877)	Ratio: 4.77 AA ¹ AAA 18pt ⁴	Ratio: 3.59 AA 18pt ²	Ratio: 2.65 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 2.51 Failed ⁵	Ratio: 3.18 AA 18pt ²
Hex(004F5E)	Ratio: 6.79 AA ¹ AAA 18pt ⁴	Ratio: 5.11 AA ¹ AAA 18pt ⁴	Ratio: 3.77 AA 18pt ²	Ratio: 2.78 Failed ⁵	Ratio: 2.02 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.76 Failed ⁵	Ratio: 2.23 Failed ⁵
Hex(003846)	Ratio: 9.35 Passed ⁶	Ratio: 7.04 Passed ⁶	Ratio: 5.19 AA ¹ AAA 18pt ⁴	Ratio: 3.83 AA 18pt ²	Ratio: 2.78 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.28 Failed ⁵	Ratio: 1.62 Failed ⁵
Hex(002430)	Ratio: 11.95 Passed ⁶	Ratio: 8.99 Passed ⁶	Ratio: 6.63 AA ¹ AAA 18pt ⁴	Ratio: 4.90 AA ¹ AAA 18pt ⁴	Ratio: 3.55 AA 18pt ²	Ratio: 2.51 Failed ⁵	Ratio: 1.76 Failed ⁵	Ratio: 1.28 Failed ⁵		Ratio: 1.27 Failed ⁵
Hex(00011C)	Ratio: 15.15 Passed ⁶	Ratio: 11.41 Passed ⁶	Ratio: 8.41 Passed ⁶	Ratio: 6.21 AA ¹ AAA 18pt ⁴	Ratio: 4.50 AA ¹ AAA 18pt ⁴	Ratio: 3.18 AA 18pt ²	Ratio: 2.23 Failed ⁵	Ratio: 1.62 Failed ⁵	Ratio: 1.27 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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