

Converting Colors - WCAG Matrix

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

	Hex(33C5FF)	Hex(00AAE2)	Hex(008FC6)	Hex(0076AB)	Hex(005D90)	Hex(004576)	Hex(002F5D)	Hex(001C45)	Hex(00042E)	Hex(000119)
Hex(33C5FF)		Ratio: 1.35 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 2.53 Failed ⁵	Ratio: 3.56 AA 18pt ²	Ratio: 5.00 AA ¹ AAA 18pt ⁴	Ratio: 6.76 AA ¹ AAA 18pt ⁴	Ratio: 8.44 Passed ⁶	Ratio: 10.00 Passed ⁶	Ratio: 10.38 Passed ⁶
Hex(00AAE2)	Ratio: 1.35 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.88 Failed ⁵	Ratio: 2.64 Failed ⁵	Ratio: 3.71 AA 18pt ²	Ratio: 5.02 AA ¹ AAA 18pt ⁴	Ratio: 6.27 AA ¹ AAA 18pt ⁴	Ratio: 7.43 Passed ⁶	Ratio: 7.71 Passed ⁶
Hex(008FC6)	Ratio: 1.84 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.94 Failed ⁵	Ratio: 2.72 Failed ⁵	Ratio: 3.67 AA 18pt ²	Ratio: 4.59 AA ¹ AAA 18pt ⁴	Ratio: 5.44 AA ¹ AAA 18pt ⁴	Ratio: 5.64 AA ¹ AAA 18pt ⁴
Hex(0076AB)	Ratio: 2.53 Failed ⁵	Ratio: 1.88 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 2.67 Failed ⁵	Ratio: 3.34 AA 18pt ²	Ratio: 3.95 AA 18pt ²	Ratio: 4.10 AA 18pt ²
Hex(005D90)	Ratio: 3.56 AA 18pt ²	Ratio: 2.64 Failed ⁵	Ratio: 1.94 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 1.90 Failed ⁵	Ratio: 2.37 Failed ⁵	Ratio: 2.81 Failed ⁵	Ratio: 2.91 Failed ⁵
Hex(004576)	Ratio: 5.00 AA ¹ AAA 18pt ⁴	Ratio: 3.71 AA 18pt ²	Ratio: 2.72 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.69 Failed ⁵	Ratio: 2.00 Failed ⁵	Ratio: 2.07 Failed ⁵
Hex(002F5D)	Ratio: 6.76 AA ¹ AAA 18pt ⁴	Ratio: 5.02 AA ¹ AAA 18pt ⁴	Ratio: 3.67 AA 18pt ²	Ratio: 2.67 Failed ⁵	Ratio: 1.90 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.25 Failed ⁵	Ratio: 1.48 Failed ⁵	Ratio: 1.54 Failed ⁵
Hex(001C45)	Ratio: 8.44 Passed ⁶	Ratio: 6.27 AA ¹ AAA 18pt ⁴	Ratio: 4.59 AA ¹ AAA 18pt ⁴	Ratio: 3.34 AA 18pt ²	Ratio: 2.37 Failed ⁵	Ratio: 1.69 Failed ⁵	Ratio: 1.25 Failed ⁵		Ratio: 1.18 Failed ⁵	Ratio: 1.23 Failed ⁵
Hex(00042E)	Ratio: 10.00 Passed ⁶	Ratio: 7.43 Passed ⁶	Ratio: 5.44 AA ¹ AAA 18pt ⁴	Ratio: 3.95 AA 18pt ²	Ratio: 2.81 Failed ⁵	Ratio: 2.00 Failed ⁵	Ratio: 1.48 Failed ⁵	Ratio: 1.18 Failed ⁵		Ratio: 1.04 Failed ⁵
Hex(000119)	Ratio: 10.38 Passed ⁶	Ratio: 7.71 Passed ⁶	Ratio: 5.64 AA ¹ AAA 18pt ⁴	Ratio: 4.10 AA 18pt ²	Ratio: 2.91 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 1.54 Failed ⁵	Ratio: 1.23 Failed ⁵	Ratio: 1.04 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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