

Converting Colors - WCAG Matrix

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

	Hex(83EEFF)	Hex(65D2E2)	Hex(45B6C6)	Hex(1C9BAB)	Hex(008190)	Hex(006777)	Hex(004F5E)	Hex(003746)	Hex(002330)	Hex(00011C)
Hex(83EEFF)		Ratio: 1.32 Failed ⁵	Ratio: 1.79 Failed ⁵	Ratio: 2.47 Failed ⁵	Ratio: 3.44 AA 18pt ²	Ratio: 4.88 AA ¹ AAA 18pt ⁴	Ratio: 6.86 AA ¹ AAA 18pt ⁴	Ratio: 9.57 Passed ⁶	Ratio: 12.19 Passed ⁶	Ratio: 15.31 Passed ⁶
Hex(65D2E2)	Ratio: 1.32 Failed ⁵		Ratio: 1.36 Failed ⁵	Ratio: 1.88 Failed ⁵	Ratio: 2.61 Failed ⁵	Ratio: 3.70 AA 18pt ²	Ratio: 5.21 AA ¹ AAA 18pt ⁴	Ratio: 7.26 Passed ⁶	Ratio: 9.25 Passed ⁶	Ratio: 11.62 Passed ⁶
Hex(45B6C6)	Ratio: 1.79 Failed ⁵	Ratio: 1.36 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.93 Failed ⁵	Ratio: 2.73 Failed ⁵	Ratio: 3.84 AA 18pt ²	Ratio: 5.36 AA ¹ AAA 18pt ⁴	Ratio: 6.83 AA ¹ AAA 18pt ⁴	Ratio: 8.58 Passed ⁶
Hex(1C9BAB)	Ratio: 2.47 Failed ⁵	Ratio: 1.88 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.97 Failed ⁵	Ratio: 2.77 Failed ⁵	Ratio: 3.87 AA 18pt ²	Ratio: 4.93 AA ¹ AAA 18pt ⁴	Ratio: 6.19 AA ¹ AAA 18pt ⁴
Hex(008190)	Ratio: 3.44 AA 18pt ²	Ratio: 2.61 Failed ⁵	Ratio: 1.93 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.99 Failed ⁵	Ratio: 2.78 Failed ⁵	Ratio: 3.54 AA 18pt ²	Ratio: 4.45 AA 18pt ²
Hex(006777)	Ratio: 4.88 AA ¹ AAA 18pt ⁴	Ratio: 3.70 AA 18pt ²	Ratio: 2.73 Failed ⁵	Ratio: 1.97 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 2.50 Failed ⁵	Ratio: 3.14 AA 18pt ²
Hex(004F5E)	Ratio: 6.86 AA ¹ AAA 18pt ⁴	Ratio: 5.21 AA ¹ AAA 18pt ⁴	Ratio: 3.84 AA 18pt ²	Ratio: 2.77 Failed ⁵	Ratio: 1.99 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 2.23 Failed ⁵
Hex(003746)	Ratio: 9.57 Passed ⁶	Ratio: 7.26 Passed ⁶	Ratio: 5.36 AA ¹ AAA 18pt ⁴	Ratio: 3.87 AA 18pt ²	Ratio: 2.78 Failed ⁵	Ratio: 1.96 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.27 Failed ⁵	Ratio: 1.60 Failed ⁵
Hex(002330)	Ratio: 12.19 Passed ⁶	Ratio: 9.25 Passed ⁶	Ratio: 6.83 AA ¹ AAA 18pt ⁴	Ratio: 4.93 AA ¹ AAA 18pt ⁴	Ratio: 3.54 AA 18pt ²	Ratio: 2.50 Failed ⁵	Ratio: 1.78 Failed ⁵	Ratio: 1.27 Failed ⁵		Ratio: 1.26 Failed ⁵
Hex(00011C)	Ratio: 15.31 Passed ⁶	Ratio: 11.62 Passed ⁶	Ratio: 8.58 Passed ⁶	Ratio: 6.19 AA ¹ AAA 18pt ⁴	Ratio: 4.45 AA 18pt ²	Ratio: 3.14 AA 18pt ²	Ratio: 2.23 Failed ⁵	Ratio: 1.60 Failed ⁵	Ratio: 1.26 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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