

Converting Colors - WCAG Matrix

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

	Hex(D0D0FF)	Hex(B5B4E2)	Hex(9999C6)	Hex(7F7FAB)	Hex(656690)	Hex(4D4E76)	Hex(35385E)	Hex(1D2246)	Hex(070D2F)	Hex(00011A)
Hex(D0D0FF)		Ratio: 1.34 Failed ⁵	Ratio: 1.83 Failed ⁵	Ratio: 2.56 Failed ⁵	Ratio: 3.67 AA 18pt ²	Ratio: 5.30 AA ¹ AAA 18pt ⁴	Ratio: 7.53 Passed ⁶	Ratio: 10.33 Passed ⁶	Ratio: 12.77 Passed ⁶	Ratio: 13.88 Passed ⁶
Hex(B5B4E2)	Ratio: 1.34 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.92 Failed ⁵	Ratio: 2.75 Failed ⁵	Ratio: 3.97 AA 18pt ²	Ratio: 5.64 AA ¹ AAA 18pt ⁴	Ratio: 7.73 Passed ⁶	Ratio: 9.56 Passed ⁶	Ratio: 10.39 Passed ⁶
Hex(9999C6)	Ratio: 1.83 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 2.00 Failed ⁵	Ratio: 2.90 Failed ⁵	Ratio: 4.11 AA 18pt ²	Ratio: 5.64 AA ¹ AAA 18pt ⁴	Ratio: 6.98 AA ¹ AAA 18pt ⁴	Ratio: 7.58 Passed ⁶
Hex(7F7FAB)	Ratio: 2.56 Failed ⁵	Ratio: 1.92 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 2.94 Failed ⁵	Ratio: 4.04 AA 18pt ²	Ratio: 4.99 AA ¹ AAA 18pt ⁴	Ratio: 5.42 AA ¹ AAA 18pt ⁴
Hex(656690)	Ratio: 3.67 AA 18pt ²	Ratio: 2.75 Failed ⁵	Ratio: 2.00 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 2.82 Failed ⁵	Ratio: 3.48 AA 18pt ²	Ratio: 3.78 AA 18pt ²
Hex(4D4E76)	Ratio: 5.30 AA ¹ AAA 18pt ⁴	Ratio: 3.97 AA 18pt ²	Ratio: 2.90 Failed ⁵	Ratio: 2.07 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 2.41 Failed ⁵	Ratio: 2.62 Failed ⁵
Hex(35385E)	Ratio: 7.53 Passed ⁶	Ratio: 5.64 AA ¹ AAA 18pt ⁴	Ratio: 4.11 AA 18pt ²	Ratio: 2.94 Failed ⁵	Ratio: 2.05 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.37 Failed ⁵	Ratio: 1.70 Failed ⁵	Ratio: 1.84 Failed ⁵
Hex(1D2246)	Ratio: 10.33 Passed ⁶	Ratio: 7.73 Passed ⁶	Ratio: 5.64 AA ¹ AAA 18pt ⁴	Ratio: 4.04 AA 18pt ²	Ratio: 2.82 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 1.37 Failed ⁵		Ratio: 1.24 Failed ⁵	Ratio: 1.34 Failed ⁵
Hex(070D2F)	Ratio: 12.77 Passed ⁶	Ratio: 9.56 Passed ⁶	Ratio: 6.98 AA ¹ AAA 18pt ⁴	Ratio: 4.99 AA ¹ AAA 18pt ⁴	Ratio: 3.48 AA 18pt ²	Ratio: 2.41 Failed ⁵	Ratio: 1.70 Failed ⁵	Ratio: 1.24 Failed ⁵		Ratio: 1.09 Failed ⁵
Hex(00011A)	Ratio: 13.88 Passed ⁶	Ratio: 10.39 Passed ⁶	Ratio: 7.58 Passed ⁶	Ratio: 5.42 AA ¹ AAA 18pt ⁴	Ratio: 3.78 AA 18pt ²	Ratio: 2.62 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 1.34 Failed ⁵	Ratio: 1.09 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.