

Converting Colors - WCAG Matrix

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

	Hex(FFB8FF)	Hex(E29DE2)	Hex(C582C6)	Hex(AA68AB)	Hex(8E4F90)	Hex(743676)	Hex(5A1E5D)	Hex(410245)	Hex(2B002F)	Hex(060019)
Hex(FFB8FF)		Ratio: 1.33 Failed ⁵	Ratio: 1.84 Failed ⁵	Ratio: 2.57 Failed ⁵	Ratio: 3.69 AA 18pt ²	Ratio: 5.35 AA ¹ AAA 18pt ⁴	Ratio: 7.62 Passed ⁶	Ratio: 10.27 Passed ⁶	Ratio: 11.85 Passed ⁶	Ratio: 13.26 Passed ⁶
Hex(E29DE2)	Ratio: 1.33 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.92 Failed ⁵	Ratio: 2.77 Failed ⁵	Ratio: 4.01 AA 18pt ²	Ratio: 5.71 AA ¹ AAA 18pt ⁴	Ratio: 7.70 Passed ⁶	Ratio: 8.88 Passed ⁶	Ratio: 9.94 Passed ⁶
Hex(C582C6)	Ratio: 1.84 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.40 Failed ⁵	Ratio: 2.01 Failed ⁵	Ratio: 2.92 Failed ⁵	Ratio: 4.15 AA 18pt ²	Ratio: 5.60 AA ¹ AAA 18pt ⁴	Ratio: 6.45 AA ¹ AAA 18pt ⁴	Ratio: 7.23 Passed ⁶
Hex(AA68AB)	Ratio: 2.57 Failed ⁵	Ratio: 1.92 Failed ⁵	Ratio: 1.40 Failed ⁵		Ratio: 1.44 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.97 Failed ⁵	Ratio: 4.00 AA 18pt ²	Ratio: 4.61 AA ¹ AAA 18pt ⁴	Ratio: 5.16 AA ¹ AAA 18pt ⁴
Hex(8E4F90)	Ratio: 3.69 AA 18pt ²	Ratio: 2.77 Failed ⁵	Ratio: 2.01 Failed ⁵	Ratio: 1.44 Failed ⁵		Ratio: 1.45 Failed ⁵	Ratio: 2.06 Failed ⁵	Ratio: 2.78 Failed ⁵	Ratio: 3.21 AA 18pt ²	Ratio: 3.59 AA 18pt ²
Hex(743676)	Ratio: 5.35 AA ¹ AAA 18pt ⁴	Ratio: 4.01 AA 18pt ²	Ratio: 2.92 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.45 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.92 Failed ⁵	Ratio: 2.21 Failed ⁵	Ratio: 2.48 Failed ⁵
Hex(5A1E5D)	Ratio: 7.62 Passed ⁶	Ratio: 5.71 AA ¹ AAA 18pt ⁴	Ratio: 4.15 AA 18pt ²	Ratio: 2.97 Failed ⁵	Ratio: 2.06 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.35 Failed ⁵	Ratio: 1.55 Failed ⁵	Ratio: 1.74 Failed ⁵
Hex(410245)	Ratio: 10.27 Passed ⁶	Ratio: 7.70 Passed ⁶	Ratio: 5.60 AA ¹ AAA 18pt ⁴	Ratio: 4.00 AA 18pt ²	Ratio: 2.78 Failed ⁵	Ratio: 1.92 Failed ⁵	Ratio: 1.35 Failed ⁵		Ratio: 1.15 Failed ⁵	Ratio: 1.29 Failed ⁵
Hex(2B002F)	Ratio: 11.85 Passed ⁶	Ratio: 8.88 Passed ⁶	Ratio: 6.45 AA ¹ AAA 18pt ⁴	Ratio: 4.61 AA ¹ AAA 18pt ⁴	Ratio: 3.21 AA 18pt ²	Ratio: 2.21 Failed ⁵	Ratio: 1.55 Failed ⁵	Ratio: 1.15 Failed ⁵		Ratio: 1.12 Failed ⁵
Hex(060019)	Ratio: 13.26 Passed ⁶	Ratio: 9.94 Passed ⁶	Ratio: 7.23 Passed ⁶	Ratio: 5.16 AA ¹ AAA 18pt ⁴	Ratio: 3.59 AA 18pt ²	Ratio: 2.48 Failed ⁵	Ratio: 1.74 Failed ⁵	Ratio: 1.29 Failed ⁵	Ratio: 1.12 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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