Converting Colors - WCAG Matrix

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

	Hex(450045)	Hex(5E1D5D)	Hex(783676)	Hex(934E8F)	Hex(AE68AA)	Hex(CA82C5)	Hex(E79CE1)	Hex(FFB8FE)	Hex(FFD4FF)	Hex(FFF1FF)
Hex(450045)		Ratio: 1.35 Failed [5]	Ratio: 1.93 Failed [5]	Ratio: 2.78 Failed [5]	Ratio: 4.00 AA 18pt [2]	Ratio: 5.61 AA [1] AAA 18pt [4]	Ratio: 7.65 Passed [6]	Ratio: 10.11 Passed [6]	Ratio: 12.03 Passed [6]	Ratio: 14.40 Passed [6]
Hex(5E1D5D)	Ratio: 1.35 Failed [5]		Ratio: 1.43 Failed [5]	Ratio: 2.06 Failed [5]	Ratio: 2.96 Failed [5]	Ratio: 4.15 AA 18pt [2]	Ratio: 5.66 AA [1] AAA 18pt [4]	Ratio: 7.48 Passed [6]	Ratio: 8.90 Passed [6]	Ratio: 10.65 Passed [6]
Hex(783676)	Ratio: 1.93 Failed [5]	Ratio: 1.43 Failed [5]		Ratio: 1.44 Failed [5]	Ratio: 2.07 Failed [5]	Ratio: 2.90 Failed [5]	Ratio: 3.96 AA 18pt [2]	Ratio: 5.23 AA [1] AAA 18pt [4]	Ratio: 6.23 AA [1] AAA 18pt [4]	Ratio: 7.45 Passed [6]
Hex(934E8F)	Ratio: 2.78 Failed [5]	Ratio: 2.06 Failed [5]	Ratio: 1.44 Failed [5]		Ratio: 1.44 Failed [5]	Ratio: 2.02 Failed [5]	Ratio: 2.75 Failed [5]	Ratio: 3.63 AA 18pt [2]	Ratio: 4.32 AA 18pt [2]	Ratio: 5.17 AA [1] AAA 18pt [4]
Hex(AE68AA)	Ratio: 4.00 AA 18pt [2]	Ratio: 2.96 Failed [5]	Ratio: 2.07 Failed [5]	Ratio: 1.44 Failed [5]		Ratio: 1.40 Failed [5]	Ratio: 1.91 Failed [5]	Ratio: 2.53 Failed [5]	Ratio: 3.01 AA 18pt [2]	Ratio: 3.60 AA 18pt [2]
Hex(CA82C5)	Ratio: 5.61 AA [1] AAA 18pt [4]	Ratio: 4.15 AA 18pt [2]	Ratio: 2.90 Failed [5]	Ratio: 2.02 Failed [5]	Ratio: 1.40 Failed [5]		Ratio: 1.36 Failed [5]	Ratio: 1.80 Failed [5]	Ratio: 2.15 Failed [5]	Ratio: 2.57 Failed [5]
Hex(E79CE1)	Ratio: 7.65 Passed [6]	Ratio: 5.66 AA [1] AAA 18pt [4]	Ratio: 3.96 AA 18pt [2]	Ratio: 2.75 Failed [5]	Ratio: 1.91 Failed [5]	Ratio: 1.36 Failed [5]		Ratio: 1.32 Failed [5]	Ratio: 1.57 Failed [5]	Ratio: 1.88 Failed [5]
Hex(FFB8FE)	Ratio: 10.11 Passed [6]	Ratio: 7.48 Passed [6]	Ratio: 5.23 AA [1] AAA 18pt [4]	Ratio: 3.63 AA 18pt [2]	Ratio: 2.53 Failed [5]	Ratio: 1.80 Failed [5]	Ratio: 1.32 Failed [5]		Ratio: 1.19 Failed [5]	Ratio: 1.42 Failed [5]
Hex(FFD4FF)	Ratio: 12.03 Passed [6]	Ratio: 8.90 Passed [6]	Ratio: 6.23 AA [1] AAA 18pt [4]	Ratio: 4.32 AA 18pt [2]	Ratio: 3.01 AA 18pt [2]	Ratio: 2.15 Failed [5]	Ratio: 1.57 Failed [5]	Ratio: 1.19 Failed [5]		Ratio: 1.20 Failed [5]
Hex(FFF1FF)	Ratio: 14.40 Passed [6]	Ratio: 10.65 Passed [6]	Ratio: 7.45 Passed [6]	Ratio: 5.17 AA [1] AAA 18pt [4]	Ratio: 3.60 AA 18pt [2]	Ratio: 2.57 Failed [5]	Ratio: 1.88 Failed [5]	Ratio: 1.42 Failed [5]	Ratio: 1.20 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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