Converting Colors - WCAG Matrix

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

	Hex(353535)	Hex(4C4C4C)	Hex(636363)	Hex(7C7C7C)	Hex(969696)	Hex(B1B1B1)	Hex(CCCCCC)	Hex(E8E8E8)	Hex(FFFFFF)
Hex(353535)		Ratio: 1.43 Failed [5]	Ratio: 2.04 Failed [5]	Ratio: 2.94 Failed [5]	Ratio: 4.15 AA 18pt [2]	Ratio: 5.72 AA [1] AAA 18pt [4]	Ratio: 7.64 Passed [6]	Ratio: 10.01 Passed [6]	Ratio: 12.27 Passed [6]
Hex(4C4C4C)	Ratio: 1.43 Failed [5]		Ratio: 1.43 Failed [5]	Ratio: 2.06 Failed [5]	Ratio: 2.90 Failed [5]	Ratio: 4.00 AA 18pt [2]	Ratio: 5.35 AA [1] AAA 18pt [4]	Ratio: 7.01 Passed [6]	Ratio: 8.59 Passed [6]
Hex(636363)	Ratio: 2.04 Failed [5]	Ratio: 1.43 Failed [5]		Ratio: 1.44 Failed [5]	Ratio: 2.03 Failed [5]	Ratio: 2.80 Failed [5]	Ratio: 3.74 AA 18pt [2]	Ratio: 4.90 AA [1] AAA 18pt [4]	Ratio: 6.01 AA [1] AAA 18pt [4]
Hex(7C7C7C)	Ratio: 2.94 Failed [5]	Ratio: 2.06 Failed [5]	Ratio: 1.44 Failed [5]		Ratio: 1.41 Failed [5]	Ratio: 1.95 Failed [5]	Ratio: 2.60 Failed [5]	Ratio: 3.41 AA 18pt [2]	Ratio: 4.17 AA 18pt [2]
Hex(969696)	Ratio: 4.15 AA 18pt [2]	Ratio: 2.90 Failed [5]	Ratio: 2.03 Failed [5]	Ratio: 1.41 Failed [5]		Ratio: 1.38 Failed [5]	Ratio: 1.84 Failed [5]	Ratio: 2.41 Failed [5]	Ratio: 2.96 Failed [5]
Hex(B1B1B1)	Ratio: 5.72 AA [1] AAA 18pt [4]	Ratio: 4.00 AA 18pt [2]	Ratio: 2.80 Failed [5]	Ratio: 1.95 Failed [5]	Ratio: 1.38 Failed [5]		Ratio: 1.34 Failed [5]	Ratio: 1.75 Failed [5]	Ratio: 2.14 Failed [5]
Hex(CCCCCC)	Ratio: 7.64 Passed [6]	Ratio: 5.35 AA [1] AAA 18pt [4]	Ratio: 3.74 AA 18pt [2]	Ratio: 2.60 Failed [5]	Ratio: 1.84 Failed [5]	Ratio: 1.34 Failed [5]		Ratio: 1.31 Failed [5]	Ratio: 1.61 Failed [5]
Hex(E8E8E8)	Ratio: 10.01 Passed [6]	Ratio: 7.01 Passed [6]	Ratio: 4.90 AA [1] AAA 18pt [4]	Ratio: 3.41 AA 18pt [2]	Ratio: 2.41 Failed [5]	Ratio: 1.75 Failed [5]	Ratio: 1.31 Failed [5]		Ratio: 1.23 Failed [5]
Hex(FFFFFF)	Ratio: 12.27 Passed [6]	Ratio: 8.59 Passed [6]	Ratio: 6.01 AA [1] AAA 18pt [4]	Ratio: 4.17 AA 18pt [2]	Ratio: 2.96 Failed [5]	Ratio: 2.14 Failed [5]	Ratio: 1.61 Failed [5]	Ratio: 1.23 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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