Converting Colors - WCAG Matrix

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

	Hex(D4D4D4)	Hex(B8B8B8)	Hex(9D9D9D)	Hex(838383)	Hex(6A6A6A)	Hex(525252)	Hex(3B3B3B)	Hex(252525)	Hex(101010)	Hex(000000)
Hex(D4D4D4)		Ratio: 1.34 Failed [5]	Ratio: 1.83 Failed [5]	Ratio: 2.56 Failed [5]	Ratio: 3.65 AA 18pt [2]	Ratio: 5.27 AA [1] AAA 18pt [4]	Ratio: 7.56 Passed [6]	Ratio: 10.34 Passed [6]	Ratio: 12.84 Passed [6]	Ratio: 14.17 Passed [6]
Hex(B8B8B8)	Ratio: 1.34 Failed [5]		Ratio: 1.37 Failed [5]	Ratio: 1.91 Failed [5]	Ratio: 2.73 Failed [5]	Ratio: 3.94 AA 18pt [2]	Ratio: 5.65 AA [1] AAA 18pt [4]	Ratio: 7.73 Passed [6]	Ratio: 9.59 Passed [6]	Ratio: 10.59 Passed [6]
Hex(9D9D9D)	Ratio: 1.83 Failed [5]	Ratio: 1.37 Failed [5]		Ratio: 1.40 Failed [5]	Ratio: 1.99 Failed [5]	Ratio: 2.88 Failed [5]	Ratio: 4.13 AA 18pt [2]	Ratio: 5.65 AA [1] AAA 18pt [4]	Ratio: 7.02 Passed [6]	Ratio: 7.74 Passed [6]
Hex(838383)	Ratio: 2.56 Failed [5]	Ratio: 1.91 Failed [5]	Ratio: 1.40 Failed [5]		Ratio: 1.43 Failed [5]	Ratio: 2.06 Failed [5]	Ratio: 2.95 Failed [5]	Ratio: 4.04 AA 18pt [2]	Ratio: 5.02 AA [1] AAA 18pt [4]	Ratio: 5.54 AA [1] AAA 18pt [4]
Hex(6A6A6A)	Ratio: 3.65 AA 18pt [2]	Ratio: 2.73 Failed [5]	Ratio: 1.99 Failed [5]	Ratio: 1.43 Failed [5]		Ratio: 1.44 Failed [5]	Ratio: 2.07 Failed [5]	Ratio: 2.83 Failed [5]	Ratio: 3.52 AA 18pt [2]	Ratio: 3.88 AA 18pt [2]
Hex(525252)	Ratio: 5.27 AA [1] AAA 18pt [4]	Ratio: 3.94 AA 18pt [2]	Ratio: 2.88 Failed [5]	Ratio: 2.06 Failed [5]	Ratio: 1.44 Failed [5]		Ratio: 1.43 Failed [5]	Ratio: 1.96 Failed [5]	Ratio: 2.44 Failed [5]	Ratio: 2.69 Failed [5]
Hex(3B3B3B)	Ratio: 7.56 Passed [6]	Ratio: 5.65 AA [1] AAA 18pt [4]	Ratio: 4.13 AA 18pt [2]	Ratio: 2.95 Failed [5]	Ratio: 2.07 Failed [5]	Ratio: 1.43 Failed [5]		Ratio: 1.37 Failed [5]	Ratio: 1.70 Failed [5]	Ratio: 1.87 Failed [5]
Hex(252525)	Ratio: 10.34 Passed [6]	Ratio: 7.73 Passed [6]	Ratio: 5.65 AA [1] AAA 18pt [4]	Ratio: 4.04 AA 18pt [2]	Ratio: 2.83 Failed [5]	Ratio: 1.96 Failed [5]	Ratio: 1.37 Failed [5]		Ratio: 1.24 Failed [5]	Ratio: 1.37 Failed [5]
Hex(101010)	Ratio: 12.84 Passed [6]	Ratio: 9.59 Passed [6]	Ratio: 7.02 Passed [6]	Ratio: 5.02 AA [1] AAA 18pt [4]	Ratio: 3.52 AA 18pt [2]	Ratio: 2.44 Failed [5]	Ratio: 1.70 Failed [5]	Ratio: 1.24 Failed [5]		Ratio: 1.10 Failed [5]
Hex(000000)	Ratio: 14.17 Passed [6]	Ratio: 10.59 Passed [6]	Ratio: 7.74 Passed [6]	Ratio: 5.54 AA [1] AAA 18pt [4]	Ratio: 3.88 AA 18pt [2]	Ratio: 2.69 Failed [5]	Ratio: 1.87 Failed [5]	Ratio: 1.37 Failed [5]	Ratio: 1.10 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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