

Converting Colors - WCAG Matrix

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

	Hex(131313)	Hex(282828)	Hex(3D3D3D)	Hex(545454)	Hex(6D6D6D)	Hex(868686)	Hex(A0A0A0)	Hex(BBBB BB)	Hex(D7D7D7)	Hex(F3F3F3)
Hex(131313)		Ratio: 1.26 Failed ⁵	Ratio: 1.71 Failed ⁵	Ratio: 2.45 Failed ⁵	Ratio: 3.59 AA 18pt ²	Ratio: 5.10 AA ¹ AAA 18pt ⁴	Ratio: 7.11 Passed ⁶	Ratio: 9.68 Passed ⁶	Ratio: 12.91 Passed ⁶	Ratio: 16.75 Passed ⁶
Hex(282828)	Ratio: 1.26 Failed ⁵		Ratio: 1.36 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 2.85 Failed ⁵	Ratio: 4.05 AA 18pt ²	Ratio: 5.64 AA ¹ AAA 18pt ⁴	Ratio: 7.68 Passed ⁶	Ratio: 10.24 Passed ⁶	Ratio: 13.29 Passed ⁶
Hex(3D3D3D)	Ratio: 1.71 Failed ⁵	Ratio: 1.36 Failed ⁵		Ratio: 1.43 Failed ⁵	Ratio: 2.10 Failed ⁵	Ratio: 2.98 Failed ⁵	Ratio: 4.15 AA 18pt ²	Ratio: 5.66 AA ¹ AAA 18pt ⁴	Ratio: 7.55 Passed ⁶	Ratio: 9.79 Passed ⁶
Hex(545454)	Ratio: 2.45 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 1.43 Failed ⁵		Ratio: 1.46 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 2.90 Failed ⁵	Ratio: 3.94 AA 18pt ²	Ratio: 5.26 AA ¹ AAA 18pt ⁴	Ratio: 6.82 AA ¹ AAA 18pt ⁴
Hex(6D6D6D)	Ratio: 3.59 AA 18pt ²	Ratio: 2.85 Failed ⁵	Ratio: 2.10 Failed ⁵	Ratio: 1.46 Failed ⁵		Ratio: 1.42 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 2.70 Failed ⁵	Ratio: 3.60 AA 18pt ²	Ratio: 4.66 AA ¹ AAA 18pt ⁴
Hex(868686)	Ratio: 5.10 AA ¹ AAA 18pt ⁴	Ratio: 4.05 AA 18pt ²	Ratio: 2.98 Failed ⁵	Ratio: 2.08 Failed ⁵	Ratio: 1.42 Failed ⁵		Ratio: 1.39 Failed ⁵	Ratio: 1.90 Failed ⁵	Ratio: 2.53 Failed ⁵	Ratio: 3.28 AA 18pt ²
Hex(A0A0A0)	Ratio: 7.11 Passed ⁶	Ratio: 5.64 AA ¹ AAA 18pt ⁴	Ratio: 4.15 AA 18pt ²	Ratio: 2.90 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 1.39 Failed ⁵		Ratio: 1.36 Failed ⁵	Ratio: 1.82 Failed ⁵	Ratio: 2.36 Failed ⁵
Hex(BBBB BB)	Ratio: 9.68 Passed ⁶	Ratio: 7.68 Passed ⁶	Ratio: 5.66 AA ¹ AAA 18pt ⁴	Ratio: 3.94 AA 18pt ²	Ratio: 2.70 Failed ⁵	Ratio: 1.90 Failed ⁵	Ratio: 1.36 Failed ⁵		Ratio: 1.33 Failed ⁵	Ratio: 1.73 Failed ⁵
Hex(D7D7D7)	Ratio: 12.91 Passed ⁶	Ratio: 10.24 Passed ⁶	Ratio: 7.55 Passed ⁶	Ratio: 5.26 AA ¹ AAA 18pt ⁴	Ratio: 3.60 AA 18pt ²	Ratio: 2.53 Failed ⁵	Ratio: 1.82 Failed ⁵	Ratio: 1.33 Failed ⁵		Ratio: 1.30 Failed ⁵
Hex(F3F3F3)	Ratio: 16.75 Passed ⁶	Ratio: 13.29 Passed ⁶	Ratio: 9.79 Passed ⁶	Ratio: 6.82 AA ¹ AAA 18pt ⁴	Ratio: 4.66 AA ¹ AAA 18pt ⁴	Ratio: 3.28 AA 18pt ²	Ratio: 2.36 Failed ⁵	Ratio: 1.73 Failed ⁵	Ratio: 1.30 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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