

Converting Colors - WCAG Matrix

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

	Hex(4591E6)	Hex(1678CA)	Hex(005FAE)	Hex(004893)	Hex(003279)	Hex(001E5F)	Hex(000847)	Hex(000430)	Hex(00011A)	Hex(000000)
Hex(4591E6)		Ratio: 1.41 Failed ⁵	Ratio: 1.98 Failed ⁵	Ratio: 2.74 Failed ⁵	Ratio: 3.72 AA 18pt ²	Ratio: 4.77 AA ¹ AAA 18pt ⁴	Ratio: 5.73 AA ¹ AAA 18pt ⁴	Ratio: 6.08 AA ¹ AAA 18pt ⁴	Ratio: 6.32 AA ¹ AAA 18pt ⁴	Ratio: 6.45 AA ¹ AAA 18pt ⁴
Hex(1678CA)	Ratio: 1.41 Failed ⁵		Ratio: 1.41 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 2.64 Failed ⁵	Ratio: 3.39 AA 18pt ²	Ratio: 4.06 AA 18pt ²	Ratio: 4.31 AA 18pt ²	Ratio: 4.49 AA 18pt ²	Ratio: 4.57 AA ¹ AAA 18pt ⁴
Hex(005FAE)	Ratio: 1.98 Failed ⁵	Ratio: 1.41 Failed ⁵		Ratio: 1.38 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 2.40 Failed ⁵	Ratio: 2.89 Failed ⁵	Ratio: 3.06 AA 18pt ²	Ratio: 3.19 AA 18pt ²	Ratio: 3.25 AA 18pt ²
Hex(004893)	Ratio: 2.74 Failed ⁵	Ratio: 1.95 Failed ⁵	Ratio: 1.38 Failed ⁵		Ratio: 1.36 Failed ⁵	Ratio: 1.74 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 2.22 Failed ⁵	Ratio: 2.30 Failed ⁵	Ratio: 2.35 Failed ⁵
Hex(003279)	Ratio: 3.72 AA 18pt ²	Ratio: 2.64 Failed ⁵	Ratio: 1.87 Failed ⁵	Ratio: 1.36 Failed ⁵		Ratio: 1.28 Failed ⁵	Ratio: 1.54 Failed ⁵	Ratio: 1.63 Failed ⁵	Ratio: 1.70 Failed ⁵	Ratio: 1.73 Failed ⁵
Hex(001E5F)	Ratio: 4.77 AA ¹ AAA 18pt ⁴	Ratio: 3.39 AA 18pt ²	Ratio: 2.40 Failed ⁵	Ratio: 1.74 Failed ⁵	Ratio: 1.28 Failed ⁵		Ratio: 1.20 Failed ⁵	Ratio: 1.27 Failed ⁵	Ratio: 1.33 Failed ⁵	Ratio: 1.35 Failed ⁵
Hex(000847)	Ratio: 5.73 AA ¹ AAA 18pt ⁴	Ratio: 4.06 AA 18pt ²	Ratio: 2.89 Failed ⁵	Ratio: 2.09 Failed ⁵	Ratio: 1.54 Failed ⁵	Ratio: 1.20 Failed ⁵		Ratio: 1.06 Failed ⁵	Ratio: 1.10 Failed ⁵	Ratio: 1.13 Failed ⁵
Hex(000430)	Ratio: 6.08 AA ¹ AAA 18pt ⁴	Ratio: 4.31 AA 18pt ²	Ratio: 3.06 AA 18pt ²	Ratio: 2.22 Failed ⁵	Ratio: 1.63 Failed ⁵	Ratio: 1.27 Failed ⁵	Ratio: 1.06 Failed ⁵		Ratio: 1.04 Failed ⁵	Ratio: 1.06 Failed ⁵
Hex(00011A)	Ratio: 6.32 AA ¹ AAA 18pt ⁴	Ratio: 4.49 AA 18pt ²	Ratio: 3.19 AA 18pt ²	Ratio: 2.30 Failed ⁵	Ratio: 1.70 Failed ⁵	Ratio: 1.33 Failed ⁵	Ratio: 1.10 Failed ⁵	Ratio: 1.04 Failed ⁵		Ratio: 1.02 Failed ⁵
Hex(000000)	Ratio: 6.45 AA ¹ AAA 18pt ⁴	Ratio: 4.57 AA ¹ AAA 18pt ⁴	Ratio: 3.25 AA 18pt ²	Ratio: 2.35 Failed ⁵	Ratio: 1.73 Failed ⁵	Ratio: 1.35 Failed ⁵	Ratio: 1.13 Failed ⁵	Ratio: 1.06 Failed ⁵	Ratio: 1.02 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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