

# Converting Colors - WCAG Matrix

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

Hex(F6A03) Hex(DE4F00) Hex(BE3300) Hex(9E1100) Hex(7E0000) Hex(5F0000) Hex(430001) Hex(000000)

	Hex(F6A03)	Hex(DE4F00)	Hex(BE3300)	Hex(9E1100)	Hex(7E0000)	Hex(5F0000)	Hex(430001)	Hex(000000)
Hex(F6A03)		Ratio: 1.40 Failed <sup>5</sup>	Ratio: 2.00 Failed <sup>5</sup>	Ratio: 2.89 Failed <sup>5</sup>	Ratio: 3.88 AA 18pt <sup>2</sup>	Ratio: 4.92 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.90 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.31 Passed <sup>6</sup>
Hex(DE4F00)	Ratio: 1.40 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 2.77 Failed <sup>5</sup>	Ratio: 3.51 AA 18pt <sup>2</sup>	Ratio: 4.22 AA 18pt <sup>2</sup>	Ratio: 5.22 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(BE3300)	Ratio: 2.00 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.45 Failed <sup>5</sup>	Ratio: 1.94 Failed <sup>5</sup>	Ratio: 2.46 Failed <sup>5</sup>	Ratio: 2.96 Failed <sup>5</sup>	Ratio: 3.66 AA 18pt <sup>2</sup>
Hex(9E1100)	Ratio: 2.89 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 1.45 Failed <sup>5</sup>		Ratio: 1.34 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>	Ratio: 2.05 Failed <sup>5</sup>	Ratio: 2.53 Failed <sup>5</sup>
Hex(7E0000)	Ratio: 3.88 AA 18pt <sup>2</sup>	Ratio: 2.77 Failed <sup>5</sup>	Ratio: 1.94 Failed <sup>5</sup>	Ratio: 1.34 Failed <sup>5</sup>		Ratio: 1.27 Failed <sup>5</sup>	Ratio: 1.52 Failed <sup>5</sup>	Ratio: 1.89 Failed <sup>5</sup>
Hex(5F0000)	Ratio: 4.92 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.51 AA 18pt <sup>2</sup>	Ratio: 2.46 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>	Ratio: 1.27 Failed <sup>5</sup>		Ratio: 1.20 Failed <sup>5</sup>	Ratio: 1.49 Failed <sup>5</sup>
Hex(430001)	Ratio: 5.90 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.22 AA 18pt <sup>2</sup>	Ratio: 2.96 Failed <sup>5</sup>	Ratio: 2.05 Failed <sup>5</sup>	Ratio: 1.52 Failed <sup>5</sup>	Ratio: 1.20 Failed <sup>5</sup>		Ratio: 1.24 Failed <sup>5</sup>
Hex(000000)	Ratio: 7.31 Passed <sup>6</sup>	Ratio: 5.22 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.66 AA 18pt <sup>2</sup>	Ratio: 2.53 Failed <sup>5</sup>	Ratio: 1.89 Failed <sup>5</sup>	Ratio: 1.49 Failed <sup>5</sup>	Ratio: 1.24 Failed <sup>5</sup>	

Details can be found at <https://www.w3.org/TR/WCAG20/>.

<sup>1</sup> AA

AA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

<sup>2</sup> AA 18pt

AA level for large text above 18pt.

<sup>3</sup> AAA

AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

<sup>4</sup> AAA 18pt

AAA level for large text above 18pt.

<sup>5</sup> Failed

Failed to comply with the Web Content Accessibility Guidelines (WCAG) 2.0.

<sup>6</sup> Passed

Passes the AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for all text sizes.