

# Converting Colors - WCAG Matrix

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

	Hex(FD5E00)	Hex(DB4200)	Hex(BA2300)	Hex(9A0000)	Hex(7A0000)	Hex(5B0000)	Hex(400003)	Hex(000000)
Hex(FD5E00)		Ratio: 1.41 Failed <sup>5</sup>	Ratio: 2.04 Failed <sup>5</sup>	Ratio: 2.85 Failed <sup>5</sup>	Ratio: 3.71 AA 18pt <sup>2</sup>	Ratio: 4.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.56 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(DB4200)	Ratio: 1.41 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>	Ratio: 2.62 Failed <sup>5</sup>	Ratio: 3.32 AA 18pt <sup>2</sup>	Ratio: 3.93 AA 18pt <sup>2</sup>	Ratio: 4.79 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(BA2300)	Ratio: 2.04 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.40 Failed <sup>5</sup>	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 2.30 Failed <sup>5</sup>	Ratio: 2.73 Failed <sup>5</sup>	Ratio: 3.33 AA 18pt <sup>2</sup>
Hex(9A0000)	Ratio: 2.85 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>	Ratio: 1.40 Failed <sup>5</sup>		Ratio: 1.30 Failed <sup>5</sup>	Ratio: 1.64 Failed <sup>5</sup>	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 2.37 Failed <sup>5</sup>
Hex(7A0000)	Ratio: 3.71 AA 18pt <sup>2</sup>	Ratio: 2.62 Failed <sup>5</sup>	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 1.30 Failed <sup>5</sup>		Ratio: 1.26 Failed <sup>5</sup>	Ratio: 1.50 Failed <sup>5</sup>	Ratio: 1.83 Failed <sup>5</sup>
Hex(5B0000)	Ratio: 4.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.32 AA 18pt <sup>2</sup>	Ratio: 2.30 Failed <sup>5</sup>	Ratio: 1.64 Failed <sup>5</sup>	Ratio: 1.26 Failed <sup>5</sup>		Ratio: 1.18 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>
Hex(400003)	Ratio: 5.56 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.93 AA 18pt <sup>2</sup>	Ratio: 2.73 Failed <sup>5</sup>	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 1.50 Failed <sup>5</sup>	Ratio: 1.18 Failed <sup>5</sup>		Ratio: 1.22 Failed <sup>5</sup>
Hex(000000)	Ratio: 6.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.79 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.33 AA 18pt <sup>2</sup>	Ratio: 2.37 Failed <sup>5</sup>	Ratio: 1.83 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>	Ratio: 1.22 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

Fails 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.

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