

# Converting Colors - WCAG Matrix

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

	Hex(F3223)	Hex(DE0008)	Hex(BC0000)	Hex(9C0000)	Hex(7B0000)	Hex(5B0002)	Hex(3D0003)	Hex(190001)	Hex(000000)
Hex(F3223)		Ratio: 1.39 Failed <sup>5</sup>	Ratio: 1.83 Failed <sup>5</sup>	Ratio: 2.38 Failed <sup>5</sup>	Ratio: 3.11 AA 18pt <sup>2</sup>	Ratio: 3.97 AA 18pt <sup>2</sup>	Ratio: 4.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.50 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.73 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(DE0008)	Ratio: 1.39 Failed <sup>5</sup>		Ratio: 1.31 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>	Ratio: 2.23 Failed <sup>5</sup>	Ratio: 2.84 Failed <sup>5</sup>	Ratio: 3.43 AA 18pt <sup>2</sup>	Ratio: 3.94 AA 18pt <sup>2</sup>	Ratio: 4.11 AA 18pt <sup>2</sup>
Hex(BC0000)	Ratio: 1.83 Failed <sup>5</sup>	Ratio: 1.31 Failed <sup>5</sup>		Ratio: 1.30 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>	Ratio: 2.17 Failed <sup>5</sup>	Ratio: 2.62 Failed <sup>5</sup>	Ratio: 3.01 AA 18pt <sup>2</sup>	Ratio: 3.14 AA 18pt <sup>2</sup>
Hex(9C0000)	Ratio: 2.38 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>	Ratio: 1.30 Failed <sup>5</sup>		Ratio: 1.31 Failed <sup>5</sup>	Ratio: 1.67 Failed <sup>5</sup>	Ratio: 2.01 Failed <sup>5</sup>	Ratio: 2.32 Failed <sup>5</sup>	Ratio: 2.41 Failed <sup>5</sup>
Hex(7B0000)	Ratio: 3.11 AA 18pt <sup>2</sup>	Ratio: 2.23 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>	Ratio: 1.31 Failed <sup>5</sup>		Ratio: 1.27 Failed <sup>5</sup>	Ratio: 1.54 Failed <sup>5</sup>	Ratio: 1.77 Failed <sup>5</sup>	Ratio: 1.84 Failed <sup>5</sup>
Hex(5B0002)	Ratio: 3.97 AA 18pt <sup>2</sup>	Ratio: 2.84 Failed <sup>5</sup>	Ratio: 2.17 Failed <sup>5</sup>	Ratio: 1.67 Failed <sup>5</sup>	Ratio: 1.27 Failed <sup>5</sup>		Ratio: 1.21 Failed <sup>5</sup>	Ratio: 1.39 Failed <sup>5</sup>	Ratio: 1.45 Failed <sup>5</sup>
Hex(3D0003)	Ratio: 4.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.43 AA 18pt <sup>2</sup>	Ratio: 2.62 Failed <sup>5</sup>	Ratio: 2.01 Failed <sup>5</sup>	Ratio: 1.54 Failed <sup>5</sup>	Ratio: 1.21 Failed <sup>5</sup>		Ratio: 1.15 Failed <sup>5</sup>	Ratio: 1.20 Failed <sup>5</sup>
Hex(190001)	Ratio: 5.50 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.94 AA 18pt <sup>2</sup>	Ratio: 3.01 AA 18pt <sup>2</sup>	Ratio: 2.32 Failed <sup>5</sup>	Ratio: 1.77 Failed <sup>5</sup>	Ratio: 1.39 Failed <sup>5</sup>	Ratio: 1.15 Failed <sup>5</sup>		Ratio: 1.04 Failed <sup>5</sup>
Hex(000000)	Ratio: 5.73 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.11 AA 18pt <sup>2</sup>	Ratio: 3.14 AA 18pt <sup>2</sup>	Ratio: 2.41 Failed <sup>5</sup>	Ratio: 1.84 Failed <sup>5</sup>	Ratio: 1.45 Failed <sup>5</sup>	Ratio: 1.20 Failed <sup>5</sup>	Ratio: 1.04 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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