

# Converting Colors - WCAG Matrix

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

	Hex(F57C4C)	Hex(D66234)	Hex(B7481C)	Hex(982E02)	Hex(7A1000)	Hex(5C0000)	Hex(400000)	Hex(240001)	Hex(000000)
Hex(F57C4C)		Ratio: 1.39 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 2.89 Failed <sup>5</sup>	Ratio: 4.14 AA 18pt <sup>2</sup>	Ratio: 5.41 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.46 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.32 Passed <sup>6</sup>	Ratio: 7.87 Passed <sup>6</sup>
Hex(D66234)	Ratio: 1.39 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 2.97 Failed <sup>5</sup>	Ratio: 3.89 AA 18pt <sup>2</sup>	Ratio: 4.64 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.26 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.66 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(B7481C)	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.45 Failed <sup>5</sup>	Ratio: 2.08 Failed <sup>5</sup>	Ratio: 2.72 Failed <sup>5</sup>	Ratio: 3.25 AA 18pt <sup>2</sup>	Ratio: 3.68 AA 18pt <sup>2</sup>	Ratio: 3.96 AA 18pt <sup>2</sup>
Hex(982E02)	Ratio: 2.89 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 1.45 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 1.87 Failed <sup>5</sup>	Ratio: 2.24 Failed <sup>5</sup>	Ratio: 2.54 Failed <sup>5</sup>	Ratio: 2.73 Failed <sup>5</sup>
Hex(7A1000)	Ratio: 4.14 AA 18pt <sup>2</sup>	Ratio: 2.97 Failed <sup>5</sup>	Ratio: 2.08 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.31 Failed <sup>5</sup>	Ratio: 1.56 Failed <sup>5</sup>	Ratio: 1.77 Failed <sup>5</sup>	Ratio: 1.90 Failed <sup>5</sup>
Hex(5C0000)	Ratio: 5.41 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.89 AA 18pt <sup>2</sup>	Ratio: 2.72 Failed <sup>5</sup>	Ratio: 1.87 Failed <sup>5</sup>	Ratio: 1.31 Failed <sup>5</sup>		Ratio: 1.19 Failed <sup>5</sup>	Ratio: 1.35 Failed <sup>5</sup>	Ratio: 1.46 Failed <sup>5</sup>
Hex(400000)	Ratio: 6.46 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.64 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.25 AA 18pt <sup>2</sup>	Ratio: 2.24 Failed <sup>5</sup>	Ratio: 1.56 Failed <sup>5</sup>	Ratio: 1.19 Failed <sup>5</sup>		Ratio: 1.13 Failed <sup>5</sup>	Ratio: 1.22 Failed <sup>5</sup>
Hex(240001)	Ratio: 7.32 Passed <sup>6</sup>	Ratio: 5.26 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.68 AA 18pt <sup>2</sup>	Ratio: 2.54 Failed <sup>5</sup>	Ratio: 1.77 Failed <sup>5</sup>	Ratio: 1.35 Failed <sup>5</sup>	Ratio: 1.13 Failed <sup>5</sup>		Ratio: 1.08 Failed <sup>5</sup>
Hex(000000)	Ratio: 7.87 Passed <sup>6</sup>	Ratio: 5.66 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.96 AA 18pt <sup>2</sup>	Ratio: 2.73 Failed <sup>5</sup>	Ratio: 1.90 Failed <sup>5</sup>	Ratio: 1.46 Failed <sup>5</sup>	Ratio: 1.22 Failed <sup>5</sup>	Ratio: 1.08 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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