

# Converting Colors - WCAG Matrix

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

Hex(FF4712) Hex(DE2400) Hex(BD0000) Hex(9C0000) Hex(7C0000) Hex(5C0001) Hex(FFFFFF)

	Hex(FF4712)	Hex(DE2400)	Hex(BD0000)	Hex(9C0000)	Hex(7C0000)	Hex(5C0001)	Hex(FFFFFF)
Hex(FF4712)		Ratio: 1.41 Failed <sup>5</sup>	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 2.55 Failed <sup>5</sup>	Ratio: 3.32 AA 18pt <sup>2</sup>	Ratio: 4.23 AA 18pt <sup>2</sup>	Ratio: 3.41 AA 18pt <sup>2</sup>
Hex(DE2400)	Ratio: 1.41 Failed <sup>5</sup>		Ratio: 1.38 Failed <sup>5</sup>	Ratio: 1.81 Failed <sup>5</sup>	Ratio: 2.35 Failed <sup>5</sup>	Ratio: 2.99 Failed <sup>5</sup>	Ratio: 4.82 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(BD0000)	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 1.38 Failed <sup>5</sup>		Ratio: 1.31 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>	Ratio: 2.17 Failed <sup>5</sup>	Ratio: 6.64 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(9C0000)	Ratio: 2.55 Failed <sup>5</sup>	Ratio: 1.81 Failed <sup>5</sup>	Ratio: 1.31 Failed <sup>5</sup>		Ratio: 1.30 Failed <sup>5</sup>	Ratio: 1.66 Failed <sup>5</sup>	Ratio: 8.70 Passed <sup>6</sup>
Hex(7C0000)	Ratio: 3.32 AA 18pt <sup>2</sup>	Ratio: 2.35 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>	Ratio: 1.30 Failed <sup>5</sup>		Ratio: 1.28 Failed <sup>5</sup>	Ratio: 11.31 Passed <sup>6</sup>
Hex(5C0001)	Ratio: 4.23 AA 18pt <sup>2</sup>	Ratio: 2.99 Failed <sup>5</sup>	Ratio: 2.17 Failed <sup>5</sup>	Ratio: 1.66 Failed <sup>5</sup>	Ratio: 1.28 Failed <sup>5</sup>		Ratio: 14.43 Passed <sup>6</sup>
Hex(FFFFFF)	Ratio: 3.41 AA 18pt <sup>2</sup>	Ratio: 4.82 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.64 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 8.70 Passed <sup>6</sup>	Ratio: 11.31 Passed <sup>6</sup>	Ratio: 14.43 Passed <sup>6</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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