

# Converting Colors - WCAG Matrix

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

	Hex(E39B00)	Hex(C48100)	Hex(A66800)	Hex(885000)	Hex(6A3900)	Hex(4E2300)	Hex(330E00)	Hex(1B0001)	Hex(000000)
Hex(E39B00)		Ratio: 1.38 Failed <sup>5</sup>	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 2.80 Failed <sup>5</sup>	Ratio: 4.07 AA 18pt <sup>2</sup>	Ratio: 5.72 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.44 Passed <sup>6</sup>	Ratio: 8.55 Passed <sup>6</sup>	Ratio: 8.95 Passed <sup>6</sup>
Hex(C48100)	Ratio: 1.38 Failed <sup>5</sup>		Ratio: 1.41 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 2.95 Failed <sup>5</sup>	Ratio: 4.15 AA 18pt <sup>2</sup>	Ratio: 5.39 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.20 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.49 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(A66800)	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 1.41 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.09 Failed <sup>5</sup>	Ratio: 2.94 Failed <sup>5</sup>	Ratio: 3.82 AA 18pt <sup>2</sup>	Ratio: 4.40 AA 18pt <sup>2</sup>	Ratio: 4.60 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(885000)	Ratio: 2.80 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.45 Failed <sup>5</sup>	Ratio: 2.04 Failed <sup>5</sup>	Ratio: 2.65 Failed <sup>5</sup>	Ratio: 3.05 AA 18pt <sup>2</sup>	Ratio: 3.19 AA 18pt <sup>2</sup>
Hex(6A3900)	Ratio: 4.07 AA 18pt <sup>2</sup>	Ratio: 2.95 Failed <sup>5</sup>	Ratio: 2.09 Failed <sup>5</sup>	Ratio: 1.45 Failed <sup>5</sup>		Ratio: 1.41 Failed <sup>5</sup>	Ratio: 1.83 Failed <sup>5</sup>	Ratio: 2.10 Failed <sup>5</sup>	Ratio: 2.20 Failed <sup>5</sup>
Hex(4E2300)	Ratio: 5.72 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.15 AA 18pt <sup>2</sup>	Ratio: 2.94 Failed <sup>5</sup>	Ratio: 2.04 Failed <sup>5</sup>	Ratio: 1.41 Failed <sup>5</sup>		Ratio: 1.30 Failed <sup>5</sup>	Ratio: 1.49 Failed <sup>5</sup>	Ratio: 1.56 Failed <sup>5</sup>
Hex(330E00)	Ratio: 7.44 Passed <sup>6</sup>	Ratio: 5.39 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.82 AA 18pt <sup>2</sup>	Ratio: 2.65 Failed <sup>5</sup>	Ratio: 1.83 Failed <sup>5</sup>	Ratio: 1.30 Failed <sup>5</sup>		Ratio: 1.15 Failed <sup>5</sup>	Ratio: 1.20 Failed <sup>5</sup>
Hex(1B0001)	Ratio: 8.55 Passed <sup>6</sup>	Ratio: 6.20 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.40 AA 18pt <sup>2</sup>	Ratio: 3.05 AA 18pt <sup>2</sup>	Ratio: 2.10 Failed <sup>5</sup>	Ratio: 1.49 Failed <sup>5</sup>	Ratio: 1.15 Failed <sup>5</sup>		Ratio: 1.05 Failed <sup>5</sup>
Hex(000000)	Ratio: 8.95 Passed <sup>6</sup>	Ratio: 6.49 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.60 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.19 AA 18pt <sup>2</sup>	Ratio: 2.20 Failed <sup>5</sup>	Ratio: 1.56 Failed <sup>5</sup>	Ratio: 1.20 Failed <sup>5</sup>	Ratio: 1.05 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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