

# Converting Colors - WCAG Matrix

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

	Hex(FFF7B8)	Hex(E2DB9D)	Hex(C5BF83)	Hex(AAA469)	Hex(8F8A50)	Hex(747038)	Hex(5B5821)	Hex(42410A)	Hex(2B2B00)	Hex(111700)
Hex(FFF7B8)		Ratio: 1.30 Failed <sup>5</sup>	Ratio: 1.73 Failed <sup>5</sup>	Ratio: 2.34 Failed <sup>5</sup>	Ratio: 3.25 AA 18pt <sup>2</sup>	Ratio: 4.67 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.72 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 9.66 Passed <sup>6</sup>	Ratio: 13.29 Passed <sup>6</sup>	Ratio: 16.79 Passed <sup>6</sup>
Hex(E2DB9D)	Ratio: 1.30 Failed <sup>5</sup>		Ratio: 1.33 Failed <sup>5</sup>	Ratio: 1.81 Failed <sup>5</sup>	Ratio: 2.51 Failed <sup>5</sup>	Ratio: 3.61 AA 18pt <sup>2</sup>	Ratio: 5.19 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.46 Passed <sup>6</sup>	Ratio: 10.26 Passed <sup>6</sup>	Ratio: 12.96 Passed <sup>6</sup>
Hex(C5BF83)	Ratio: 1.73 Failed <sup>5</sup>	Ratio: 1.33 Failed <sup>5</sup>		Ratio: 1.36 Failed <sup>5</sup>	Ratio: 1.88 Failed <sup>5</sup>	Ratio: 2.71 Failed <sup>5</sup>	Ratio: 3.90 AA 18pt <sup>2</sup>	Ratio: 5.60 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.70 Passed <sup>6</sup>	Ratio: 9.73 Passed <sup>6</sup>
Hex(AAA469)	Ratio: 2.34 Failed <sup>5</sup>	Ratio: 1.81 Failed <sup>5</sup>	Ratio: 1.36 Failed <sup>5</sup>		Ratio: 1.39 Failed <sup>5</sup>	Ratio: 2.00 Failed <sup>5</sup>	Ratio: 2.87 Failed <sup>5</sup>	Ratio: 4.13 AA 18pt <sup>2</sup>	Ratio: 5.68 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.17 Passed <sup>6</sup>
Hex(8F8A50)	Ratio: 3.25 AA 18pt <sup>2</sup>	Ratio: 2.51 Failed <sup>5</sup>	Ratio: 1.88 Failed <sup>5</sup>	Ratio: 1.39 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 2.97 Failed <sup>5</sup>	Ratio: 4.09 AA 18pt <sup>2</sup>	Ratio: 5.16 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(747038)	Ratio: 4.67 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.61 AA 18pt <sup>2</sup>	Ratio: 2.71 Failed <sup>5</sup>	Ratio: 2.00 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 2.84 Failed <sup>5</sup>	Ratio: 3.59 AA 18pt <sup>2</sup>
Hex(5B5821)	Ratio: 6.72 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.19 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.90 AA 18pt <sup>2</sup>	Ratio: 2.87 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 1.98 Failed <sup>5</sup>	Ratio: 2.50 Failed <sup>5</sup>
Hex(42410A)	Ratio: 9.66 Passed <sup>6</sup>	Ratio: 7.46 Passed <sup>6</sup>	Ratio: 5.60 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.13 AA 18pt <sup>2</sup>	Ratio: 2.97 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.38 Failed <sup>5</sup>	Ratio: 1.74 Failed <sup>5</sup>
Hex(2B2B00)	Ratio: 13.29 Passed <sup>6</sup>	Ratio: 10.26 Passed <sup>6</sup>	Ratio: 7.70 Passed <sup>6</sup>	Ratio: 5.68 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.09 AA 18pt <sup>2</sup>	Ratio: 2.84 Failed <sup>5</sup>	Ratio: 1.98 Failed <sup>5</sup>	Ratio: 1.38 Failed <sup>5</sup>		Ratio: 1.26 Failed <sup>5</sup>
Hex(111700)	Ratio: 16.79 Passed <sup>6</sup>	Ratio: 12.96 Passed <sup>6</sup>	Ratio: 9.73 Passed <sup>6</sup>	Ratio: 7.17 Passed <sup>6</sup>	Ratio: 5.16 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.59 AA 18pt <sup>2</sup>	Ratio: 2.50 Failed <sup>5</sup>	Ratio: 1.74 Failed <sup>5</sup>	Ratio: 1.26 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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