

# Converting Colors - WCAG Matrix

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

	Hex(FAE46E)	Hex(DCC853)	Hex(BFAD38)	Hex(A2921A)	Hex(867900)	Hex(6A6000)	Hex(4F4900)	Hex(353300)	Hex(1D1E00)	Hex(000200)
Hex(FAE46E)		Ratio: 1.32 Failed <sup>5</sup>	Ratio: 1.77 Failed <sup>5</sup>	Ratio: 2.46 Failed <sup>5</sup>	Ratio: 3.45 AA 18pt <sup>2</sup>	Ratio: 4.99 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.17 Passed <sup>6</sup>	Ratio: 10.08 Passed <sup>6</sup>	Ratio: 13.24 Passed <sup>6</sup>	Ratio: 16.25 Passed <sup>6</sup>
Hex(DCC853)	Ratio: 1.32 Failed <sup>5</sup>		Ratio: 1.34 Failed <sup>5</sup>	Ratio: 1.87 Failed <sup>5</sup>	Ratio: 2.62 Failed <sup>5</sup>	Ratio: 3.78 AA 18pt <sup>2</sup>	Ratio: 5.44 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.65 Passed <sup>6</sup>	Ratio: 10.04 Passed <sup>6</sup>	Ratio: 12.32 Passed <sup>6</sup>
Hex(BFAD38)	Ratio: 1.77 Failed <sup>5</sup>	Ratio: 1.34 Failed <sup>5</sup>		Ratio: 1.39 Failed <sup>5</sup>	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 2.81 Failed <sup>5</sup>	Ratio: 4.05 AA 18pt <sup>2</sup>	Ratio: 5.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.47 Passed <sup>6</sup>	Ratio: 9.17 Passed <sup>6</sup>
Hex(A2921A)	Ratio: 2.46 Failed <sup>5</sup>	Ratio: 1.87 Failed <sup>5</sup>	Ratio: 1.39 Failed <sup>5</sup>		Ratio: 1.40 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 2.92 Failed <sup>5</sup>	Ratio: 4.10 AA 18pt <sup>2</sup>	Ratio: 5.38 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.61 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(867900)	Ratio: 3.45 AA 18pt <sup>2</sup>	Ratio: 2.62 Failed <sup>5</sup>	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 1.40 Failed <sup>5</sup>		Ratio: 1.45 Failed <sup>5</sup>	Ratio: 2.08 Failed <sup>5</sup>	Ratio: 2.92 Failed <sup>5</sup>	Ratio: 3.84 AA 18pt <sup>2</sup>	Ratio: 4.71 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(6A6000)	Ratio: 4.99 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.78 AA 18pt <sup>2</sup>	Ratio: 2.81 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 1.45 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>	Ratio: 2.65 Failed <sup>5</sup>	Ratio: 3.26 AA 18pt <sup>2</sup>
Hex(4F4900)	Ratio: 7.17 Passed <sup>6</sup>	Ratio: 5.44 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.05 AA 18pt <sup>2</sup>	Ratio: 2.92 Failed <sup>5</sup>	Ratio: 2.08 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.41 Failed <sup>5</sup>	Ratio: 1.85 Failed <sup>5</sup>	Ratio: 2.27 Failed <sup>5</sup>
Hex(353300)	Ratio: 10.08 Passed <sup>6</sup>	Ratio: 7.65 Passed <sup>6</sup>	Ratio: 5.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.10 AA 18pt <sup>2</sup>	Ratio: 2.92 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>	Ratio: 1.41 Failed <sup>5</sup>		Ratio: 1.31 Failed <sup>5</sup>	Ratio: 1.61 Failed <sup>5</sup>
Hex(1D1E00)	Ratio: 13.24 Passed <sup>6</sup>	Ratio: 10.04 Passed <sup>6</sup>	Ratio: 7.47 Passed <sup>6</sup>	Ratio: 5.38 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.84 AA 18pt <sup>2</sup>	Ratio: 2.65 Failed <sup>5</sup>	Ratio: 1.85 Failed <sup>5</sup>	Ratio: 1.31 Failed <sup>5</sup>		Ratio: 1.23 Failed <sup>5</sup>
Hex(000200)	Ratio: 16.25 Passed <sup>6</sup>	Ratio: 12.32 Passed <sup>6</sup>	Ratio: 9.17 Passed <sup>6</sup>	Ratio: 6.61 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.71 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.26 AA 18pt <sup>2</sup>	Ratio: 2.27 Failed <sup>5</sup>	Ratio: 1.61 Failed <sup>5</sup>	Ratio: 1.23 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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