

# Converting Colors - WCAG Matrix

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

	Hex(B8CCB9)	Hex(9DB19E)	Hex(839684)	Hex(697C6B)	Hex(516353)	Hex(3A4B3C)	Hex(243426)	Hex(101F12)	Hex(000100)	Hex(000000)
Hex(B8CCB9)		Ratio: 1.34 Failed <sup>5</sup>	Ratio: 1.86 Failed <sup>5</sup>	Ratio: 2.64 Failed <sup>5</sup>	Ratio: 3.80 AA 18pt <sup>2</sup>	Ratio: 5.50 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.76 Passed <sup>6</sup>	Ratio: 10.09 Passed <sup>6</sup>	Ratio: 12.32 Passed <sup>6</sup>	Ratio: 12.38 Passed <sup>6</sup>
Hex(9DB19E)	Ratio: 1.34 Failed <sup>5</sup>		Ratio: 1.38 Failed <sup>5</sup>	Ratio: 1.96 Failed <sup>5</sup>	Ratio: 2.83 Failed <sup>5</sup>	Ratio: 4.09 AA 18pt <sup>2</sup>	Ratio: 5.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.51 Passed <sup>6</sup>	Ratio: 9.18 Passed <sup>6</sup>	Ratio: 9.22 Passed <sup>6</sup>
Hex(839684)	Ratio: 1.86 Failed <sup>5</sup>	Ratio: 1.38 Failed <sup>5</sup>		Ratio: 1.42 Failed <sup>5</sup>	Ratio: 2.04 Failed <sup>5</sup>	Ratio: 2.96 Failed <sup>5</sup>	Ratio: 4.18 AA 18pt <sup>2</sup>	Ratio: 5.43 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.63 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.66 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(697C6B)	Ratio: 2.64 Failed <sup>5</sup>	Ratio: 1.96 Failed <sup>5</sup>	Ratio: 1.42 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.09 Failed <sup>5</sup>	Ratio: 2.95 Failed <sup>5</sup>	Ratio: 3.83 AA 18pt <sup>2</sup>	Ratio: 4.68 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.70 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(516353)	Ratio: 3.80 AA 18pt <sup>2</sup>	Ratio: 2.83 Failed <sup>5</sup>	Ratio: 2.04 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: 2.66 Failed <sup>5</sup>	Ratio: 3.25 AA 18pt <sup>2</sup>	Ratio: 3.26 AA 18pt <sup>2</sup>
Hex(3A4B3C)	Ratio: 5.50 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.09 AA 18pt <sup>2</sup>	Ratio: 2.96 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: 1.84 Failed <sup>5</sup>	Ratio: 2.24 Failed <sup>5</sup>	Ratio: 2.25 Failed <sup>5</sup>
Hex(243426)	Ratio: 7.76 Passed <sup>6</sup>	Ratio: 5.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.18 AA 18pt <sup>2</sup>	Ratio: 2.95 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: 1.59 Failed <sup>5</sup>	Ratio: 1.59 Failed <sup>5</sup>
Hex(101F12)	Ratio: 10.09 Passed <sup>6</sup>	Ratio: 7.51 Passed <sup>6</sup>	Ratio: 5.43 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.83 AA 18pt <sup>2</sup>	Ratio: 2.66 Failed <sup>5</sup>	Ratio: 1.84 Failed <sup>5</sup>	Ratio: 1.30 Failed <sup>5</sup>		Ratio: 1.22 Failed <sup>5</sup>	Ratio: 1.23 Failed <sup>5</sup>
Hex(000100)	Ratio: 12.32 Passed <sup>6</sup>	Ratio: 9.18 Passed <sup>6</sup>	Ratio: 6.63 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.68 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: 1.59 Failed <sup>5</sup>	Ratio: 1.22 Failed <sup>5</sup>		Ratio: 1.00 Failed <sup>5</sup>
Hex(000000)	Ratio: 12.38 Passed <sup>6</sup>	Ratio: 9.22 Passed <sup>6</sup>	Ratio: 6.66 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.70 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.26 AA 18pt <sup>2</sup>	Ratio: 2.25 Failed <sup>5</sup>	Ratio: 1.59 Failed <sup>5</sup>	Ratio: 1.23 Failed <sup>5</sup>	Ratio: 1.00 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.