

# Converting Colors - WCAG Matrix

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

	Hex(19BDCA)	Hex(00A2AF)	Hex(008894)	Hex(006F7A)	Hex(005461)	Hex(003C4A)	Hex(002733)	Hex(00021E)	Hex(000001)	Hex(000000)
Hex(19BDCA)		Ratio: 1.35 Failed <sup>5</sup>	Ratio: 1.85 Failed <sup>5</sup>	Ratio: 2.58 Failed <sup>5</sup>	Ratio: 3.76 AA 18pt <sup>2</sup>	Ratio: 5.26 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.86 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 8.93 Passed <sup>6</sup>	Ratio: 9.17 Passed <sup>6</sup>	Ratio: 9.17 Passed <sup>6</sup>
Hex(00A2AF)	Ratio: 1.35 Failed <sup>5</sup>		Ratio: 1.37 Failed <sup>5</sup>	Ratio: 1.91 Failed <sup>5</sup>	Ratio: 2.78 Failed <sup>5</sup>	Ratio: 3.89 AA 18pt <sup>2</sup>	Ratio: 5.07 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.61 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.79 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(008894)	Ratio: 1.85 Failed <sup>5</sup>	Ratio: 1.37 Failed <sup>5</sup>		Ratio: 1.39 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 2.84 Failed <sup>5</sup>	Ratio: 3.70 AA 18pt <sup>2</sup>	Ratio: 4.82 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.95 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.95 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(006F7A)	Ratio: 2.58 Failed <sup>5</sup>	Ratio: 1.91 Failed <sup>5</sup>	Ratio: 1.39 Failed <sup>5</sup>		Ratio: 1.46 Failed <sup>5</sup>	Ratio: 2.04 Failed <sup>5</sup>	Ratio: 2.66 Failed <sup>5</sup>	Ratio: 3.46 AA 18pt <sup>2</sup>	Ratio: 3.55 AA 18pt <sup>2</sup>	Ratio: 3.55 AA 18pt <sup>2</sup>
Hex(005461)	Ratio: 3.76 AA 18pt <sup>2</sup>	Ratio: 2.78 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 1.46 Failed <sup>5</sup>		Ratio: 1.40 Failed <sup>5</sup>	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 2.38 Failed <sup>5</sup>	Ratio: 2.44 Failed <sup>5</sup>	Ratio: 2.44 Failed <sup>5</sup>
Hex(003C4A)	Ratio: 5.26 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.89 AA 18pt <sup>2</sup>	Ratio: 2.84 Failed <sup>5</sup>	Ratio: 2.04 Failed <sup>5</sup>	Ratio: 1.40 Failed <sup>5</sup>		Ratio: 1.30 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>	Ratio: 1.74 Failed <sup>5</sup>	Ratio: 1.75 Failed <sup>5</sup>
Hex(002733)	Ratio: 6.86 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.07 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.70 AA 18pt <sup>2</sup>	Ratio: 2.66 Failed <sup>5</sup>	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 1.30 Failed <sup>5</sup>		Ratio: 1.30 Failed <sup>5</sup>	Ratio: 1.34 Failed <sup>5</sup>	Ratio: 1.34 Failed <sup>5</sup>
Hex(00021E)	Ratio: 8.93 Passed <sup>6</sup>	Ratio: 6.61 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.82 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.46 AA 18pt <sup>2</sup>	Ratio: 2.38 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>	Ratio: 1.30 Failed <sup>5</sup>		Ratio: 1.03 Failed <sup>5</sup>	Ratio: 1.03 Failed <sup>5</sup>
Hex(000001)	Ratio: 9.17 Passed <sup>6</sup>	Ratio: 6.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.95 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.55 AA 18pt <sup>2</sup>	Ratio: 2.44 Failed <sup>5</sup>	Ratio: 1.74 Failed <sup>5</sup>	Ratio: 1.34 Failed <sup>5</sup>	Ratio: 1.03 Failed <sup>5</sup>		Ratio: 1.00 Failed <sup>5</sup>
Hex(000000)	Ratio: 9.17 Passed <sup>6</sup>	Ratio: 6.79 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.95 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.55 AA 18pt <sup>2</sup>	Ratio: 2.44 Failed <sup>5</sup>	Ratio: 1.75 Failed <sup>5</sup>	Ratio: 1.34 Failed <sup>5</sup>	Ratio: 1.03 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.