

# Converting Colors - WCAG Matrix

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

	Hex(A5DCDD)	Hex(89C0C1)	Hex(6FA5A6)	Hex(558B8C)	Hex(3B7172)	Hex(21595A)	Hex(004142)	Hex(002B2C)	Hex(001818)	Hex(000000)
Hex(A5DCDD)		Ratio: 1.34 Failed <sup>5</sup>	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 2.54 Failed <sup>5</sup>	Ratio: 3.66 AA 18pt <sup>2</sup>	Ratio: 5.26 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.57 Passed <sup>6</sup>	Ratio: 10.04 Passed <sup>6</sup>	Ratio: 12.14 Passed <sup>6</sup>	Ratio: 13.88 Passed <sup>6</sup>
Hex(89C0C1)	Ratio: 1.34 Failed <sup>5</sup>		Ratio: 1.36 Failed <sup>5</sup>	Ratio: 1.90 Failed <sup>5</sup>	Ratio: 2.74 Failed <sup>5</sup>	Ratio: 3.93 AA 18pt <sup>2</sup>	Ratio: 5.65 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.51 Passed <sup>6</sup>	Ratio: 9.07 Passed <sup>6</sup>	Ratio: 10.37 Passed <sup>6</sup>
Hex(6FA5A6)	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 1.36 Failed <sup>5</sup>		Ratio: 1.39 Failed <sup>5</sup>	Ratio: 2.01 Failed <sup>5</sup>	Ratio: 2.88 Failed <sup>5</sup>	Ratio: 4.15 AA 18pt <sup>2</sup>	Ratio: 5.51 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.65 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.61 Passed <sup>6</sup>
Hex(558B8C)	Ratio: 2.54 Failed <sup>5</sup>	Ratio: 1.90 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: 3.95 AA 18pt <sup>2</sup>	Ratio: 4.77 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.46 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(3B7172)	Ratio: 3.66 AA 18pt <sup>2</sup>	Ratio: 2.74 Failed <sup>5</sup>	Ratio: 2.01 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: 2.74 Failed <sup>5</sup>	Ratio: 3.31 AA 18pt <sup>2</sup>	Ratio: 3.79 AA 18pt <sup>2</sup>
Hex(21595A)	Ratio: 5.26 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.93 AA 18pt <sup>2</sup>	Ratio: 2.88 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: 1.91 Failed <sup>5</sup>	Ratio: 2.31 Failed <sup>5</sup>	Ratio: 2.64 Failed <sup>5</sup>
Hex(004142)	Ratio: 7.57 Passed <sup>6</sup>	Ratio: 5.65 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.15 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: 1.33 Failed <sup>5</sup>	Ratio: 1.60 Failed <sup>5</sup>	Ratio: 1.83 Failed <sup>5</sup>
Hex(002B2C)	Ratio: 10.04 Passed <sup>6</sup>	Ratio: 7.51 Passed <sup>6</sup>	Ratio: 5.51 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.95 AA 18pt <sup>2</sup>	Ratio: 2.74 Failed <sup>5</sup>	Ratio: 1.91 Failed <sup>5</sup>	Ratio: 1.33 Failed <sup>5</sup>		Ratio: 1.21 Failed <sup>5</sup>	Ratio: 1.38 Failed <sup>5</sup>
Hex(001818)	Ratio: 12.14 Passed <sup>6</sup>	Ratio: 9.07 Passed <sup>6</sup>	Ratio: 6.65 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.77 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.31 AA 18pt <sup>2</sup>	Ratio: 2.31 Failed <sup>5</sup>	Ratio: 1.60 Failed <sup>5</sup>	Ratio: 1.21 Failed <sup>5</sup>		Ratio: 1.14 Failed <sup>5</sup>
Hex(000000)	Ratio: 13.88 Passed <sup>6</sup>	Ratio: 10.37 Passed <sup>6</sup>	Ratio: 7.61 Passed <sup>6</sup>	Ratio: 5.46 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.79 AA 18pt <sup>2</sup>	Ratio: 2.64 Failed <sup>5</sup>	Ratio: 1.83 Failed <sup>5</sup>	Ratio: 1.38 Failed <sup>5</sup>	Ratio: 1.14 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.