

# Converting Colors - WCAG Matrix

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

	Hex(184447)	Hex(FFFFFF)	Hex(4A7477)	Hex(638E91)	Hex(7DA8AB)	Hex(97C4C7)	Hex(B3E0E3)	Hex(CEFCFF)	Hex(EBFFFF)
Hex(184447)		Ratio: 10.73 Passed <sup>6</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 2.97 Failed <sup>5</sup>	Ratio: 4.12 AA 18pt <sup>2</sup>	Ratio: 5.64 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.51 Passed <sup>6</sup>	Ratio: 9.71 Passed <sup>6</sup>	Ratio: 10.37 Passed <sup>6</sup>
Hex(FFFFFF)	Ratio: 10.73 Passed <sup>6</sup>		Ratio: 5.18 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.62 AA 18pt <sup>2</sup>	Ratio: 2.61 Failed <sup>5</sup>	Ratio: 1.90 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>	Ratio: 1.11 Failed <sup>5</sup>	Ratio: 1.04 Failed <sup>5</sup>
Hex(4A7477)	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 5.18 AA <sup>1</sup> AAA 18pt <sup>4</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 2.72 Failed <sup>5</sup>	Ratio: 3.62 AA 18pt <sup>2</sup>	Ratio: 4.68 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.00 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(638E91)	Ratio: 2.97 Failed <sup>5</sup>	Ratio: 3.62 AA 18pt <sup>2</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.39 Failed <sup>5</sup>	Ratio: 1.90 Failed <sup>5</sup>	Ratio: 2.53 Failed <sup>5</sup>	Ratio: 3.27 AA 18pt <sup>2</sup>	Ratio: 3.49 AA 18pt <sup>2</sup>
Hex(7DA8AB)	Ratio: 4.12 AA 18pt <sup>2</sup>	Ratio: 2.61 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 1.39 Failed <sup>5</sup>		Ratio: 1.37 Failed <sup>5</sup>	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 2.36 Failed <sup>5</sup>	Ratio: 2.52 Failed <sup>5</sup>
Hex(97C4C7)	Ratio: 5.64 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 1.90 Failed <sup>5</sup>	Ratio: 2.72 Failed <sup>5</sup>	Ratio: 1.90 Failed <sup>5</sup>	Ratio: 1.37 Failed <sup>5</sup>		Ratio: 1.33 Failed <sup>5</sup>	Ratio: 1.72 Failed <sup>5</sup>	Ratio: 1.84 Failed <sup>5</sup>
Hex(B3E0E3)	Ratio: 7.51 Passed <sup>6</sup>	Ratio: 1.43 Failed <sup>5</sup>	Ratio: 3.62 AA 18pt <sup>2</sup>	Ratio: 2.53 Failed <sup>5</sup>	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 1.33 Failed <sup>5</sup>		Ratio: 1.29 Failed <sup>5</sup>	Ratio: 1.38 Failed <sup>5</sup>
Hex(CEFCFF)	Ratio: 9.71 Passed <sup>6</sup>	Ratio: 1.11 Failed <sup>5</sup>	Ratio: 4.68 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.27 AA 18pt <sup>2</sup>	Ratio: 2.36 Failed <sup>5</sup>	Ratio: 1.72 Failed <sup>5</sup>	Ratio: 1.29 Failed <sup>5</sup>		Ratio: 1.07 Failed <sup>5</sup>
Hex(EBFFFF)	Ratio: 10.37 Passed <sup>6</sup>	Ratio: 1.04 Failed <sup>5</sup>	Ratio: 5.00 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.49 AA 18pt <sup>2</sup>	Ratio: 2.52 Failed <sup>5</sup>	Ratio: 1.84 Failed <sup>5</sup>	Ratio: 1.38 Failed <sup>5</sup>	Ratio: 1.07 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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