

# Converting Colors - WCAG Matrix

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

	Hex(7FD7B8)	Hex(63BB9D)	Hex(48A083)	Hex(2A856A)	Hex(006C52)	Hex(00533B)	Hex(003B25)	Hex(002610)	Hex(000000)
Hex(7FD7B8)		Ratio: 1.35 Failed <sup>5</sup>	Ratio: 1.86 Failed <sup>5</sup>	Ratio: 2.64 Failed <sup>5</sup>	Ratio: 3.77 AA 18pt <sup>2</sup>	Ratio: 5.35 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.45 Passed <sup>6</sup>	Ratio: 9.58 Passed <sup>6</sup>	Ratio: 12.31 Passed <sup>6</sup>
Hex(63BB9D)	Ratio: 1.35 Failed <sup>5</sup>		Ratio: 1.38 Failed <sup>5</sup>	Ratio: 1.96 Failed <sup>5</sup>	Ratio: 2.79 Failed <sup>5</sup>	Ratio: 3.97 AA 18pt <sup>2</sup>	Ratio: 5.52 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.10 Passed <sup>6</sup>	Ratio: 9.13 Passed <sup>6</sup>
Hex(48A083)	Ratio: 1.86 Failed <sup>5</sup>	Ratio: 1.38 Failed <sup>5</sup>		Ratio: 1.42 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 2.88 Failed <sup>5</sup>	Ratio: 4.01 AA 18pt <sup>2</sup> AAA 18pt <sup>4</sup>	Ratio: 5.16 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.63 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(2A856A)	Ratio: 2.64 Failed <sup>5</sup>	Ratio: 1.96 Failed <sup>5</sup>	Ratio: 1.42 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 2.82 Failed <sup>5</sup>	Ratio: 3.63 AA 18pt <sup>2</sup> AAA 18pt <sup>4</sup>	Ratio: 4.66 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(006C52)	Ratio: 3.77 AA 18pt <sup>2</sup>	Ratio: 2.79 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.42 Failed <sup>5</sup>	Ratio: 1.98 Failed <sup>5</sup>	Ratio: 2.54 Failed <sup>5</sup>	Ratio: 3.27 AA 18pt <sup>2</sup>
Hex(00533B)	Ratio: 5.35 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.97 AA 18pt <sup>2</sup>	Ratio: 2.88 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 1.42 Failed <sup>5</sup>		Ratio: 1.39 Failed <sup>5</sup>	Ratio: 1.79 Failed <sup>5</sup>	Ratio: 2.30 Failed <sup>5</sup>
Hex(003B25)	Ratio: 7.45 Passed <sup>6</sup>	Ratio: 5.52 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.01 AA 18pt <sup>2</sup>	Ratio: 2.82 Failed <sup>5</sup>	Ratio: 1.98 Failed <sup>5</sup>	Ratio: 1.39 Failed <sup>5</sup>		Ratio: 1.29 Failed <sup>5</sup>	Ratio: 1.65 Failed <sup>5</sup>
Hex(002610)	Ratio: 9.58 Passed <sup>6</sup>	Ratio: 7.10 Passed <sup>6</sup>	Ratio: 5.16 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.63 AA 18pt <sup>2</sup>	Ratio: 2.54 Failed <sup>5</sup>	Ratio: 1.79 Failed <sup>5</sup>	Ratio: 1.29 Failed <sup>5</sup>		Ratio: 1.28 Failed <sup>5</sup>
Hex(000000)	Ratio: 12.31 Passed <sup>6</sup>	Ratio: 9.13 Passed <sup>6</sup>	Ratio: 6.63 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.66 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.27 AA 18pt <sup>2</sup>	Ratio: 2.30 Failed <sup>5</sup>	Ratio: 1.65 Failed <sup>5</sup>	Ratio: 1.28 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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