

# Converting Colors - WCAG Matrix

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

	Hex(B6D7B4)	Hex(9BBC9A)	Hex(81A180)	Hex(688667)	Hex(4F6D4E)	Hex(385537)	Hex(213D22)	Hex(0C270C)	Hex(001200)	Hex(000000)
Hex(B6D7B4)		Ratio: 1.33 Failed <sup>5</sup>	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 2.57 Failed <sup>5</sup>	Ratio: 3.68 AA 18pt <sup>2</sup>	Ratio: 5.30 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.62 Passed <sup>6</sup>	Ratio: 10.20 Passed <sup>6</sup>	Ratio: 12.30 Passed <sup>6</sup>	Ratio: 13.37 Passed <sup>6</sup>
Hex(9BBC9A)	Ratio: 1.33 Failed <sup>5</sup>		Ratio: 1.37 Failed <sup>5</sup>	Ratio: 1.94 Failed <sup>5</sup>	Ratio: 2.77 Failed <sup>5</sup>	Ratio: 3.99 AA 18pt <sup>2</sup>	Ratio: 5.73 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.67 Passed <sup>6</sup>	Ratio: 9.25 Passed <sup>6</sup>	Ratio: 10.05 Passed <sup>6</sup>
Hex(81A180)	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 1.37 Failed <sup>5</sup>		Ratio: 1.41 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>	Ratio: 2.91 Failed <sup>5</sup>	Ratio: 4.18 AA 18pt <sup>2</sup>	Ratio: 5.60 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.76 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.34 Passed <sup>6</sup>
Hex(688667)	Ratio: 2.57 Failed <sup>5</sup>	Ratio: 1.94 Failed <sup>5</sup>	Ratio: 1.41 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 2.96 Failed <sup>5</sup>	Ratio: 3.96 AA 18pt <sup>2</sup>	Ratio: 4.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.19 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(4F6D4E)	Ratio: 3.68 AA 18pt <sup>2</sup>	Ratio: 2.77 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 2.77 Failed <sup>5</sup>	Ratio: 3.34 AA 18pt <sup>2</sup>	Ratio: 3.63 AA 18pt <sup>2</sup>
Hex(385537)	Ratio: 5.30 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.99 AA 18pt <sup>2</sup>	Ratio: 2.91 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 1.92 Failed <sup>5</sup>	Ratio: 2.32 Failed <sup>5</sup>	Ratio: 2.52 Failed <sup>5</sup>
Hex(213D22)	Ratio: 7.62 Passed <sup>6</sup>	Ratio: 5.73 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.18 AA 18pt <sup>2</sup>	Ratio: 2.96 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.34 Failed <sup>5</sup>	Ratio: 1.62 Failed <sup>5</sup>	Ratio: 1.76 Failed <sup>5</sup>
Hex(0C270C)	Ratio: 10.20 Passed <sup>6</sup>	Ratio: 7.67 Passed <sup>6</sup>	Ratio: 5.60 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.96 AA 18pt <sup>2</sup>	Ratio: 2.77 Failed <sup>5</sup>	Ratio: 1.92 Failed <sup>5</sup>	Ratio: 1.34 Failed <sup>5</sup>		Ratio: 1.21 Failed <sup>5</sup>	Ratio: 1.31 Failed <sup>5</sup>
Hex(001200)	Ratio: 12.30 Passed <sup>6</sup>	Ratio: 9.25 Passed <sup>6</sup>	Ratio: 6.76 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.34 AA 18pt <sup>2</sup>	Ratio: 2.32 Failed <sup>5</sup>	Ratio: 1.62 Failed <sup>5</sup>	Ratio: 1.21 Failed <sup>5</sup>		Ratio: 1.09 Failed <sup>5</sup>
Hex(000000)	Ratio: 13.37 Passed <sup>6</sup>	Ratio: 10.05 Passed <sup>6</sup>	Ratio: 7.34 Passed <sup>6</sup>	Ratio: 5.19 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.63 AA 18pt <sup>2</sup>	Ratio: 2.52 Failed <sup>5</sup>	Ratio: 1.76 Failed <sup>5</sup>	Ratio: 1.31 Failed <sup>5</sup>	Ratio: 1.09 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.