

# Converting Colors - WCAG Matrix

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

	Hex(DBD5D0)	Hex(BFB9B4)	Hex(A49E9A)	Hex(8A8480)	Hex(706B67)	Hex(58534F)	Hex(413C38)	Hex(2B2623)	Hex(16120D)	Hex(000000)
Hex(DBD5D0)		Ratio: 1.34 Failed <sup>5</sup>	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 2.54 Failed <sup>5</sup>	Ratio: 3.62 AA 18pt <sup>2</sup>	Ratio: 5.22 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.49 Passed <sup>6</sup>	Ratio: 10.28 Passed <sup>6</sup>	Ratio: 12.82 Passed <sup>6</sup>	Ratio: 14.44 Passed <sup>6</sup>
Hex(BFB9B4)	Ratio: 1.34 Failed <sup>5</sup>		Ratio: 1.36 Failed <sup>5</sup>	Ratio: 1.90 Failed <sup>5</sup>	Ratio: 2.71 Failed <sup>5</sup>	Ratio: 3.91 AA 18pt <sup>2</sup>	Ratio: 5.61 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.70 Passed <sup>6</sup>	Ratio: 9.60 Passed <sup>6</sup>	Ratio: 10.81 Passed <sup>6</sup>
Hex(A49E9A)	Ratio: 1.82 Failed <sup>5</sup>	Ratio: 1.36 Failed <sup>5</sup>		Ratio: 1.39 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 2.87 Failed <sup>5</sup>	Ratio: 4.12 AA 18pt <sup>2</sup>	Ratio: 5.65 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.05 Passed <sup>6</sup>	Ratio: 7.94 Passed <sup>6</sup>
Hex(8A8480)	Ratio: 2.54 Failed <sup>5</sup>	Ratio: 1.90 Failed <sup>5</sup>	Ratio: 1.39 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 2.95 Failed <sup>5</sup>	Ratio: 4.05 AA 18pt <sup>2</sup>	Ratio: 5.05 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(706B67)	Ratio: 3.62 AA 18pt <sup>2</sup>	Ratio: 2.71 Failed <sup>5</sup>	Ratio: 1.99 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: 2.84 Failed <sup>5</sup>	Ratio: 3.54 AA 18pt <sup>2</sup>	Ratio: 3.99 AA 18pt <sup>2</sup>
Hex(58534F)	Ratio: 5.22 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.91 AA 18pt <sup>2</sup>	Ratio: 2.87 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 1.97 Failed <sup>5</sup>	Ratio: 2.45 Failed <sup>5</sup>	Ratio: 2.77 Failed <sup>5</sup>
Hex(413C38)	Ratio: 7.49 Passed <sup>6</sup>	Ratio: 5.61 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.12 AA 18pt <sup>2</sup>	Ratio: 2.95 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.37 Failed <sup>5</sup>	Ratio: 1.71 Failed <sup>5</sup>	Ratio: 1.93 Failed <sup>5</sup>
Hex(2B2623)	Ratio: 10.28 Passed <sup>6</sup>	Ratio: 7.70 Passed <sup>6</sup>	Ratio: 5.65 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.05 AA 18pt <sup>2</sup>	Ratio: 2.84 Failed <sup>5</sup>	Ratio: 1.97 Failed <sup>5</sup>	Ratio: 1.37 Failed <sup>5</sup>		Ratio: 1.25 Failed <sup>5</sup>	Ratio: 1.40 Failed <sup>5</sup>
Hex(16120D)	Ratio: 12.82 Passed <sup>6</sup>	Ratio: 9.60 Passed <sup>6</sup>	Ratio: 7.05 Passed <sup>6</sup>	Ratio: 5.05 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.54 AA 18pt <sup>2</sup>	Ratio: 2.45 Failed <sup>5</sup>	Ratio: 1.71 Failed <sup>5</sup>	Ratio: 1.25 Failed <sup>5</sup>		Ratio: 1.13 Failed <sup>5</sup>
Hex(000000)	Ratio: 14.44 Passed <sup>6</sup>	Ratio: 10.81 Passed <sup>6</sup>	Ratio: 7.94 Passed <sup>6</sup>	Ratio: 5.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.99 AA 18pt <sup>2</sup>	Ratio: 2.77 Failed <sup>5</sup>	Ratio: 1.93 Failed <sup>5</sup>	Ratio: 1.40 Failed <sup>5</sup>	Ratio: 1.13 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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