

# Converting Colors - WCAG Matrix

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

	Hex(A5B0A6)	Hex(8B958C)	Hex(727B72)	Hex(59635A)	Hex(424B42)	Hex(2C342C)	Hex(171F18)	Hex(000500)	Hex(000000)
Hex(A5B0A6)		Ratio: 1.38 Failed <sup>5</sup>	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 2.79 Failed <sup>5</sup>	Ratio: 4.04 AA 18pt <sup>2</sup>	Ratio: 5.73 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.51 Passed <sup>6</sup>	Ratio: 9.16 Passed <sup>6</sup>	Ratio: 9.36 Passed <sup>6</sup>
Hex(8B958C)	Ratio: 1.38 Failed <sup>5</sup>		Ratio: 1.41 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>	Ratio: 2.92 Failed <sup>5</sup>	Ratio: 4.14 AA 18pt <sup>2</sup>	Ratio: 5.44 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.63 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(727B72)	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 1.41 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 2.93 Failed <sup>5</sup>	Ratio: 3.85 AA 18pt <sup>2</sup>	Ratio: 4.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.79 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(59635A)	Ratio: 2.79 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.45 Failed <sup>5</sup>	Ratio: 2.05 Failed <sup>5</sup>	Ratio: 2.70 Failed <sup>5</sup>	Ratio: 3.29 AA 18pt <sup>2</sup>	Ratio: 3.36 AA 18pt <sup>2</sup>
Hex(424B42)	Ratio: 4.04 AA 18pt <sup>2</sup>	Ratio: 2.92 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 1.45 Failed <sup>5</sup>		Ratio: 1.42 Failed <sup>5</sup>	Ratio: 1.86 Failed <sup>5</sup>	Ratio: 2.27 Failed <sup>5</sup>	Ratio: 2.32 Failed <sup>5</sup>
Hex(2C342C)	Ratio: 5.73 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.14 AA 18pt <sup>2</sup>	Ratio: 2.93 Failed <sup>5</sup>	Ratio: 2.05 Failed <sup>5</sup>	Ratio: 1.42 Failed <sup>5</sup>		Ratio: 1.31 Failed <sup>5</sup>	Ratio: 1.60 Failed <sup>5</sup>	Ratio: 1.63 Failed <sup>5</sup>
Hex(171F18)	Ratio: 7.51 Passed <sup>6</sup>	Ratio: 5.44 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.85 AA 18pt <sup>2</sup>	Ratio: 2.70 Failed <sup>5</sup>	Ratio: 1.86 Failed <sup>5</sup>	Ratio: 1.31 Failed <sup>5</sup>		Ratio: 1.22 Failed <sup>5</sup>	Ratio: 1.25 Failed <sup>5</sup>
Hex(000500)	Ratio: 9.16 Passed <sup>6</sup>	Ratio: 6.63 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.29 AA 18pt <sup>2</sup>	Ratio: 2.27 Failed <sup>5</sup>	Ratio: 1.60 Failed <sup>5</sup>	Ratio: 1.22 Failed <sup>5</sup>		Ratio: 1.02 Failed <sup>5</sup>
Hex(000000)	Ratio: 9.36 Passed <sup>6</sup>	Ratio: 6.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.79 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.36 AA 18pt <sup>2</sup>	Ratio: 2.32 Failed <sup>5</sup>	Ratio: 1.63 Failed <sup>5</sup>	Ratio: 1.25 Failed <sup>5</sup>	Ratio: 1.02 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.