

# Converting Colors - WCAG Matrix

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

|             | Hex(8B4646)                         | Hex(8B5454)                         | Hex(8B6262)                        | Hex(8B7070)                        | Hex(8B7E7E)                        | Hex(8B8C8C)                        | Hex(8B9999)                        | Hex(8BA7A7)                        | Hex(8BB5B5)                         | Hex(8BC3C3)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(8B4646) |                                     | Ratio: 1.14<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 2.32<br>Failed <sup>5</sup> | Ratio: 2.67<br>Failed <sup>5</sup> | Ratio: 3.06<br>AA 18pt <sup>2</sup> | Ratio: 3.49<br>AA 18pt <sup>2</sup> |
| Hex(8B5454) | Ratio: 1.14<br>Failed <sup>5</sup>  |                                     | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.04<br>Failed <sup>5</sup> | Ratio: 2.34<br>Failed <sup>5</sup> | Ratio: 2.68<br>Failed <sup>5</sup>  | Ratio: 3.06<br>AA 18pt <sup>2</sup> |
| Hex(8B6262) | Ratio: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.15<br>Failed <sup>5</sup>  |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 2.04<br>Failed <sup>5</sup> | Ratio: 2.33<br>Failed <sup>5</sup>  | Ratio: 2.66<br>Failed <sup>5</sup>  |
| Hex(8B7070) | Ratio: 1.52<br>Failed <sup>5</sup>  | Ratio: 1.33<br>Failed <sup>5</sup>  | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.30<br>Failed <sup>5</sup>  |
| Hex(8B7E7E) | Ratio: 1.76<br>Failed <sup>5</sup>  | Ratio: 1.54<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup>  | Ratio: 1.99<br>Failed <sup>5</sup>  |
| Hex(8B8C8C) | Ratio: 2.03<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup>  | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup>  | Ratio: 1.72<br>Failed <sup>5</sup>  |
| Hex(8B9999) | Ratio: 2.32<br>Failed <sup>5</sup>  | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 1.50<br>Failed <sup>5</sup>  |
| Hex(8BA7A7) | Ratio: 2.67<br>Failed <sup>5</sup>  | Ratio: 2.34<br>Failed <sup>5</sup>  | Ratio: 2.04<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.15<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup>  |
| Hex(8BB5B5) | Ratio: 3.06<br>AA 18pt <sup>2</sup> | Ratio: 2.68<br>Failed <sup>5</sup>  | Ratio: 2.33<br>Failed <sup>5</sup> | Ratio: 2.02<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |                                     | Ratio: 1.14<br>Failed <sup>5</sup>  |
| Hex(8BC3C3) | Ratio: 3.49<br>AA 18pt <sup>2</sup> | Ratio: 3.06<br>AA 18pt <sup>2</sup> | Ratio: 2.66<br>Failed <sup>5</sup> | Ratio: 2.30<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 1.72<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.14<br>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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