

# Converting Colors - WCAG Matrix

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

|             | Hex(826970)                         | Hex(827679)                        | Hex(828383)                        | Hex(82908D)                        | Hex(829D96)                        | Hex(82AAA0)                        | Hex(82B7A9)                        | Hex(82C4B3)                        | Hex(82D1BD)                        | Hex(82DEC6)                         |
|-------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Hex(826970) |                                     | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.72<br>Failed <sup>5</sup> | Ratio: 1.95<br>Failed <sup>5</sup> | Ratio: 2.21<br>Failed <sup>5</sup> | Ratio: 2.50<br>Failed <sup>5</sup> | Ratio: 2.81<br>Failed <sup>5</sup> | Ratio: 3.14<br>AA 18pt <sup>2</sup> |
| Hex(827679) | Ratio: 1.15<br>Failed <sup>5</sup>  |                                    | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.70<br>Failed <sup>5</sup> | Ratio: 1.93<br>Failed <sup>5</sup> | Ratio: 2.18<br>Failed <sup>5</sup> | Ratio: 2.45<br>Failed <sup>5</sup> | Ratio: 2.74<br>Failed <sup>5</sup>  |
| Hex(828383) | Ratio: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup> | Ratio: 1.68<br>Failed <sup>5</sup> | Ratio: 1.90<br>Failed <sup>5</sup> | Ratio: 2.14<br>Failed <sup>5</sup> | Ratio: 2.39<br>Failed <sup>5</sup>  |
| Hex(82908D) | Ratio: 1.50<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.47<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup> | Ratio: 2.09<br>Failed <sup>5</sup>  |
| Hex(829D96) | 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> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 1.64<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup>  |
| Hex(82AAA0) | Ratio: 1.95<br>Failed <sup>5</sup>  | Ratio: 1.70<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.13<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup>  |
| Hex(82B7A9) | Ratio: 2.21<br>Failed <sup>5</sup>  | Ratio: 1.93<br>Failed <sup>5</sup> | Ratio: 1.68<br>Failed <sup>5</sup> | Ratio: 1.47<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.13<br>Failed <sup>5</sup> |                                    | Ratio: 1.13<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup>  |
| Hex(82C4B3) | Ratio: 2.50<br>Failed <sup>5</sup>  | Ratio: 2.18<br>Failed <sup>5</sup> | Ratio: 1.90<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.13<br>Failed <sup>5</sup> |                                    | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup>  |
| Hex(82D1BD) | Ratio: 2.81<br>Failed <sup>5</sup>  | Ratio: 2.45<br>Failed <sup>5</sup> | Ratio: 2.14<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup> | Ratio: 1.64<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> |                                    | Ratio: 1.12<br>Failed <sup>5</sup>  |
| Hex(82DEC6) | Ratio: 3.14<br>AA 18pt <sup>2</sup> | Ratio: 2.74<br>Failed <sup>5</sup> | Ratio: 2.39<br>Failed <sup>5</sup> | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.12<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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