

# Converting Colors - WCAG Matrix

| Web Content Accessibility Guidelines (WCAG) 2.0 - Color Matrix. |                                     |                                     |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                     |
|-----------------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
|                                                                 | Hex(874348)                         | Hex(875054)                         | Hex(875D60)                        | Hex(876B6D)                        | Hex(877879)                        | Hex(878686)                        | Hex(879392)                        | Hex(87A19F)                        | Hex(87AEAB)                        | Hex(87BCB8)                         |
| Hex(874348)                                                     |                                     | Ratio: 1.13<br>Failed <sup>5</sup>  | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 1.98<br>Failed <sup>5</sup> | Ratio: 2.26<br>Failed <sup>5</sup> | Ratio: 2.61<br>Failed <sup>5</sup> | Ratio: 2.96<br>Failed <sup>5</sup> | Ratio: 3.39<br>AA 18pt <sup>2</sup> |
| Hex(875054)                                                     | Ratio: 1.13<br>Failed <sup>5</sup>  |                                     | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 2.00<br>Failed <sup>5</sup> | Ratio: 2.31<br>Failed <sup>5</sup> | Ratio: 2.62<br>Failed <sup>5</sup> | Ratio: 3.00<br>AA 18pt <sup>2</sup> |
| Hex(875D60)                                                     | Ratio: 1.29<br>Failed <sup>5</sup>  | Ratio: 1.14<br>Failed <sup>5</sup>  |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 2.30<br>Failed <sup>5</sup> | Ratio: 2.63<br>Failed <sup>5</sup>  |
| Hex(876B6D)                                                     | Ratio: 1.49<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 2.28<br>Failed <sup>5</sup>  |
| Hex(877879)                                                     | Ratio: 1.71<br>Failed <sup>5</sup>  | Ratio: 1.51<br>Failed <sup>5</sup>  | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup>  |
| Hex(878686)                                                     | Ratio: 1.98<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>  | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup>  |
| Hex(879392)                                                     | Ratio: 2.26<br>Failed <sup>5</sup>  | Ratio: 2.00<br>Failed <sup>5</sup>  | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.14<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>  |
| Hex(87A19F)                                                     | Ratio: 2.61<br>Failed <sup>5</sup>  | Ratio: 2.31<br>Failed <sup>5</sup>  | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.53<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> | Ratio: 1.30<br>Failed <sup>5</sup>  |
| Hex(87AEAB)                                                     | Ratio: 2.96<br>Failed <sup>5</sup>  | Ratio: 2.62<br>Failed <sup>5</sup>  | Ratio: 2.30<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 1.74<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>  |
| Hex(87BCB8)                                                     | Ratio: 3.39<br>AA 18pt <sup>2</sup> | Ratio: 3.00<br>AA 18pt <sup>2</sup> | Ratio: 2.63<br>Failed <sup>5</sup> | Ratio: 2.28<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.30<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.