

# Converting Colors - WCAG Matrix

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

|             | Hex(6B4E97)                         | Hex(745D97)                         | Hex(7D6C97)                        | Hex(867B97)                        | Hex(8F8A97)                        | Hex(989997)                        | Hex(A1A897)                        | Hex(AAB797)                         | Hex(B3C697)                         | Hex(BCD597)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(6B4E97) |                                     | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 1.41<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup> | Ratio: 1.98<br>Failed <sup>5</sup> | Ratio: 2.32<br>Failed <sup>5</sup> | Ratio: 2.71<br>Failed <sup>5</sup> | Ratio: 3.14<br>AA 18pt <sup>2</sup> | Ratio: 3.62<br>AA 18pt <sup>2</sup> | Ratio: 4.14<br>AA 18pt <sup>2</sup> |
| Hex(745D97) | Ratio: 1.19<br>Failed <sup>5</sup>  |                                     | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.95<br>Failed <sup>5</sup> | Ratio: 2.28<br>Failed <sup>5</sup> | Ratio: 2.64<br>Failed <sup>5</sup>  | Ratio: 3.05<br>AA 18pt <sup>2</sup> | Ratio: 3.49<br>AA 18pt <sup>2</sup> |
| Hex(7D6C97) | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.19<br>Failed <sup>5</sup>  |                                    | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.64<br>Failed <sup>5</sup> | Ratio: 1.92<br>Failed <sup>5</sup> | Ratio: 2.22<br>Failed <sup>5</sup>  | Ratio: 2.56<br>Failed <sup>5</sup>  | Ratio: 2.94<br>Failed <sup>5</sup>  |
| Hex(867B97) | Ratio: 1.67<br>Failed <sup>5</sup>  | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.19<br>Failed <sup>5</sup> |                                    | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.62<br>Failed <sup>5</sup> | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 2.16<br>Failed <sup>5</sup>  | Ratio: 2.48<br>Failed <sup>5</sup>  |
| Hex(8F8A97) | Ratio: 1.98<br>Failed <sup>5</sup>  | Ratio: 1.66<br>Failed <sup>5</sup>  | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup>  | Ratio: 1.83<br>Failed <sup>5</sup>  | Ratio: 2.10<br>Failed <sup>5</sup>  |
| Hex(989997) | Ratio: 2.32<br>Failed <sup>5</sup>  | Ratio: 1.95<br>Failed <sup>5</sup>  | Ratio: 1.64<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup>  | Ratio: 1.56<br>Failed <sup>5</sup>  | Ratio: 1.79<br>Failed <sup>5</sup>  |
| Hex(A1A897) | Ratio: 2.71<br>Failed <sup>5</sup>  | Ratio: 2.28<br>Failed <sup>5</sup>  | Ratio: 1.92<br>Failed <sup>5</sup> | Ratio: 1.62<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.17<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>  |
| Hex(AAB797) | Ratio: 3.14<br>AA 18pt <sup>2</sup> | Ratio: 2.64<br>Failed <sup>5</sup>  | Ratio: 2.22<br>Failed <sup>5</sup> | Ratio: 1.88<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                     | Ratio: 1.15<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup>  |
| Hex(B3C697) | Ratio: 3.62<br>AA 18pt <sup>2</sup> | Ratio: 3.05<br>AA 18pt <sup>2</sup> | Ratio: 2.56<br>Failed <sup>5</sup> | Ratio: 2.16<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup>  |                                     | Ratio: 1.15<br>Failed <sup>5</sup>  |
| Hex(BCD597) | Ratio: 4.14<br>AA 18pt <sup>2</sup> | Ratio: 3.49<br>AA 18pt <sup>2</sup> | Ratio: 2.94<br>Failed <sup>5</sup> | Ratio: 2.48<br>Failed <sup>5</sup> | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 1.79<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>  |                                     |

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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