

# Converting Colors - WCAG Matrix

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

|             | Hex(7F2396)                         | Hex(823296)                         | Hex(854196)                        | Hex(885096)                        | Hex(8B5F96)                        | Hex(8E6E96)                        | Hex(917D96)                        | Hex(948C96)                        | Hex(979B96)                        | Hex(9AAA96)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Hex(7F2396) |                                     | Ratio: 1.10<br>Failed <sup>5</sup>  | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup> | Ratio: 1.62<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup> | Ratio: 2.16<br>Failed <sup>5</sup> | Ratio: 2.50<br>Failed <sup>5</sup> | Ratio: 2.88<br>Failed <sup>5</sup> | Ratio: 3.32<br>AA 18pt <sup>2</sup> |
| Hex(823296) | Ratio: 1.10<br>Failed <sup>5</sup>  |                                     | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.47<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 2.27<br>Failed <sup>5</sup> | Ratio: 2.62<br>Failed <sup>5</sup> | Ratio: 3.01<br>AA 18pt <sup>2</sup> |
| Hex(854196) | Ratio: 1.24<br>Failed <sup>5</sup>  | Ratio: 1.12<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: 1.75<br>Failed <sup>5</sup> | Ratio: 2.02<br>Failed <sup>5</sup> | Ratio: 2.33<br>Failed <sup>5</sup> | Ratio: 2.68<br>Failed <sup>5</sup>  |
| Hex(885096) | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.28<br>Failed <sup>5</sup>  | 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: 1.53<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 2.36<br>Failed <sup>5</sup>  |
| Hex(8B5F96) | Ratio: 1.62<br>Failed <sup>5</sup>  | Ratio: 1.47<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: 1.34<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup>  |
| Hex(8E6E96) | Ratio: 1.87<br>Failed <sup>5</sup>  | Ratio: 1.69<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: 1.34<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup>  |
| Hex(917D96) | Ratio: 2.16<br>Failed <sup>5</sup>  | Ratio: 1.96<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.53<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: 1.33<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup>  |
| Hex(948C96) | Ratio: 2.50<br>Failed <sup>5</sup>  | Ratio: 2.27<br>Failed <sup>5</sup>  | Ratio: 2.02<br>Failed <sup>5</sup> | Ratio: 1.77<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: 1.15<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup>  |
| Hex(979B96) | Ratio: 2.88<br>Failed <sup>5</sup>  | Ratio: 2.62<br>Failed <sup>5</sup>  | Ratio: 2.33<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.15<br>Failed <sup>5</sup>  |
| Hex(9AAA96) | Ratio: 3.32<br>AA 18pt <sup>2</sup> | Ratio: 3.01<br>AA 18pt <sup>2</sup> | Ratio: 2.68<br>Failed <sup>5</sup> | Ratio: 2.36<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.33<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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