

# Converting Colors - WCAG Matrix

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

|             | Hex(A9B7CA)                         | Hex(95ABCA)                        | Hex(81A0CA)                        | Hex(6C94CA)                        | Hex(5888CA)                        | Hex(447DCA)                        | Hex(3071CA)                        | Hex(1C66CA)                        | Hex(075ACA)                         | Hex(0056CA)                         |
|-------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(A9B7CA) |                                     | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 2.38<br>Failed <sup>5</sup> | Ratio: 2.71<br>Failed <sup>5</sup> | Ratio: 3.10<br>AA 18pt <sup>2</sup> | Ratio: 3.24<br>AA 18pt <sup>2</sup> |
| Hex(95ABCA) | Ratio: 1.15<br>Failed <sup>5</sup>  |                                    | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.06<br>Failed <sup>5</sup> | Ratio: 2.36<br>Failed <sup>5</sup> | Ratio: 2.69<br>Failed <sup>5</sup>  | Ratio: 2.81<br>Failed <sup>5</sup>  |
| Hex(81A0CA) | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.80<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 2.35<br>Failed <sup>5</sup>  | Ratio: 2.45<br>Failed <sup>5</sup>  |
| Hex(6C94CA) | Ratio: 1.53<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: 1.55<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.11<br>Failed <sup>5</sup>  |
| Hex(5888CA) | Ratio: 1.78<br>Failed <sup>5</sup>  | Ratio: 1.55<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: 1.33<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup>  | Ratio: 1.82<br>Failed <sup>5</sup>  |
| Hex(447DCA) | Ratio: 2.05<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: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup>  | Ratio: 1.58<br>Failed <sup>5</sup>  |
| Hex(3071CA) | Ratio: 2.38<br>Failed <sup>5</sup>  | Ratio: 2.06<br>Failed <sup>5</sup> | Ratio: 1.80<br>Failed <sup>5</sup> | Ratio: 1.55<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: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>  |
| Hex(1C66CA) | Ratio: 2.71<br>Failed <sup>5</sup>  | Ratio: 2.36<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup>  | Ratio: 1.19<br>Failed <sup>5</sup>  |
| Hex(075ACA) | Ratio: 3.10<br>AA 18pt <sup>2</sup> | Ratio: 2.69<br>Failed <sup>5</sup> | Ratio: 2.35<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: 1.31<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                     | Ratio: 1.04<br>Failed <sup>5</sup>  |
| Hex(0056CA) | Ratio: 3.24<br>AA 18pt <sup>2</sup> | Ratio: 2.81<br>Failed <sup>5</sup> | Ratio: 2.45<br>Failed <sup>5</sup> | Ratio: 2.11<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.04<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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