

# Converting Colors - WCAG Matrix

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

|             | Hex(195EC6)                         | Hex(2D6AC6)                         | Hex(4176C6)                        | Hex(5482C6)                        | Hex(688EC6)                        | Hex(7C9AC6)                        | Hex(90A5C6)                        | Hex(A4B1C6)                        | Hex(B7BDC6)                         | Hex(CBC9C6)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(195EC6) |                                     | Ratio: 1.15<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 2.11<br>Failed <sup>5</sup> | Ratio: 2.42<br>Failed <sup>5</sup> | Ratio: 2.80<br>Failed <sup>5</sup> | Ratio: 3.21<br>AA 18pt <sup>2</sup> | Ratio: 3.68<br>AA 18pt <sup>2</sup> |
| Hex(2D6AC6) | 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: 1.57<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 2.43<br>Failed <sup>5</sup> | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 3.19<br>AA 18pt <sup>2</sup> |
| Hex(4176C6) | 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: 1.35<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 2.40<br>Failed <sup>5</sup>  | Ratio: 2.74<br>Failed <sup>5</sup>  |
| Hex(5482C6) | Ratio: 1.56<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup>  | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.80<br>Failed <sup>5</sup> | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 2.36<br>Failed <sup>5</sup>  |
| Hex(688EC6) | Ratio: 1.81<br>Failed <sup>5</sup>  | Ratio: 1.57<br>Failed <sup>5</sup>  | Ratio: 1.35<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: 1.54<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup>  | Ratio: 2.03<br>Failed <sup>5</sup>  |
| Hex(7C9AC6) | Ratio: 2.11<br>Failed <sup>5</sup>  | Ratio: 1.83<br>Failed <sup>5</sup>  | Ratio: 1.58<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>  |
| Hex(90A5C6) | Ratio: 2.42<br>Failed <sup>5</sup>  | Ratio: 2.10<br>Failed <sup>5</sup>  | Ratio: 1.81<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> | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 1.52<br>Failed <sup>5</sup>  |
| Hex(A4B1C6) | Ratio: 2.80<br>Failed <sup>5</sup>  | Ratio: 2.43<br>Failed <sup>5</sup>  | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 1.80<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>  | Ratio: 1.31<br>Failed <sup>5</sup>  |
| Hex(B7BDC6) | Ratio: 3.21<br>AA 18pt <sup>2</sup> | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 2.40<br>Failed <sup>5</sup> | Ratio: 2.06<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: 1.15<br>Failed <sup>5</sup> |                                     | Ratio: 1.14<br>Failed <sup>5</sup>  |
| Hex(CBC9C6) | Ratio: 3.68<br>AA 18pt <sup>2</sup> | Ratio: 3.19<br>AA 18pt <sup>2</sup> | Ratio: 2.74<br>Failed <sup>5</sup> | Ratio: 2.36<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.31<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.

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