

# Converting Colors - WCAG Matrix

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

|             | Hex(AC3663)                         | Hex(AC476E)                         | Hex(AC5878)                        | Hex(AC6A83)                        | Hex(AC7B8E)                        | Hex(AC8C98)                        | Hex(AC9DA3)                        | Hex(ACAEAD)                        | Hex(ACC0B8)                         | Hex(ACD1C3)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(AC3663) |                                     | Ratio: 1.12<br>Failed <sup>5</sup>  | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup> | Ratio: 1.73<br>Failed <sup>5</sup> | Ratio: 2.01<br>Failed <sup>5</sup> | Ratio: 2.34<br>Failed <sup>5</sup> | Ratio: 2.72<br>Failed <sup>5</sup> | Ratio: 3.17<br>AA 18pt <sup>2</sup> | Ratio: 3.66<br>AA 18pt <sup>2</sup> |
| Hex(AC476E) | Ratio: 1.12<br>Failed <sup>5</sup>  |                                     | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.79<br>Failed <sup>5</sup> | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 2.43<br>Failed <sup>5</sup> | Ratio: 2.83<br>Failed <sup>5</sup>  | Ratio: 3.26<br>AA 18pt <sup>2</sup> |
| Hex(AC5878) | Ratio: 1.28<br>Failed <sup>5</sup>  | Ratio: 1.14<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: 2.13<br>Failed <sup>5</sup> | Ratio: 2.48<br>Failed <sup>5</sup>  | Ratio: 2.86<br>Failed <sup>5</sup>  |
| Hex(AC6A83) | Ratio: 1.49<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: 1.35<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 2.14<br>Failed <sup>5</sup>  | Ratio: 2.46<br>Failed <sup>5</sup>  |
| Hex(AC7B8E) | Ratio: 1.73<br>Failed <sup>5</sup>  | Ratio: 1.54<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: 1.36<br>Failed <sup>5</sup> | Ratio: 1.57<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup>  | Ratio: 2.12<br>Failed <sup>5</sup>  |
| Hex(AC8C98) | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 1.79<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: 1.35<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup>  | Ratio: 1.82<br>Failed <sup>5</sup>  |
| Hex(AC9DA3) | Ratio: 2.34<br>Failed <sup>5</sup>  | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.56<br>Failed <sup>5</sup>  |
| Hex(ACAEAD) | Ratio: 2.72<br>Failed <sup>5</sup>  | Ratio: 2.43<br>Failed <sup>5</sup>  | Ratio: 2.13<br>Failed <sup>5</sup> | Ratio: 1.83<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: 1.17<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup>  |
| Hex(ACC0B8) | Ratio: 3.17<br>AA 18pt <sup>2</sup> | Ratio: 2.83<br>Failed <sup>5</sup>  | Ratio: 2.48<br>Failed <sup>5</sup> | Ratio: 2.14<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> |                                     | Ratio: 1.15<br>Failed <sup>5</sup>  |
| Hex(ACD1C3) | Ratio: 3.66<br>AA 18pt <sup>2</sup> | Ratio: 3.26<br>AA 18pt <sup>2</sup> | Ratio: 2.86<br>Failed <sup>5</sup> | Ratio: 2.46<br>Failed <sup>5</sup> | Ratio: 2.12<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.35<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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