

# Converting Colors - WCAG Matrix

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

|             | Hex(7AAACC)                        | Hex(8EB2CC)                        | Hex(A3BBCC)                        | Hex(B7C3CC)                        | Hex(CCCCCC)                        | Hex(E0D4CC)                        | Hex(F4DDCC)                        | Hex(FFE5CC)                        | Hex(FFECC)                         | Hex(FFF6CC)                        |
|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Hex(7AAACC) |                                    | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 1.90<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 2.17<br>Failed <sup>5</sup> | Ratio: 2.28<br>Failed <sup>5</sup> |
| Hex(8EB2CC) | Ratio: 1.11<br>Failed <sup>5</sup> |                                    | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 1.85<br>Failed <sup>5</sup> | Ratio: 1.95<br>Failed <sup>5</sup> | Ratio: 2.06<br>Failed <sup>5</sup> |
| Hex(A3BBCC) | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> |                                    | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.64<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> |
| Hex(B7C3CC) | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> |                                    | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.57<br>Failed <sup>5</sup> | Ratio: 1.65<br>Failed <sup>5</sup> |
| Hex(CCCCCC) | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> |                                    | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> |
| Hex(E0D4CC) | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> |                                    | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> |
| Hex(F4DDCC) | Ratio: 1.90<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> |                                    | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> |
| Hex(FFE5CC) | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 1.85<br>Failed <sup>5</sup> | Ratio: 1.64<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> |                                    | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> |
| Hex(FFECC)  | Ratio: 2.17<br>Failed <sup>5</sup> | Ratio: 1.95<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 1.57<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> |                                    | Ratio: 1.05<br>Failed <sup>5</sup> |
| Hex(FFF6CC) | Ratio: 2.28<br>Failed <sup>5</sup> | Ratio: 2.06<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.05<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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