

# Converting Colors - WCAG Matrix

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

|             | Hex(8F5EC0)                         | Hex(9971C0)                         | Hex(A284C0)                        | Hex(AC98C0)                        | Hex(B5ABC0)                        | Hex(BFBEC0)                        | Hex(C9D1C0)                        | Hex(D2E4C0)                         | Hex(DCF8C0)                         | Hex(E5FFC0)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(8F5EC0) |                                     | Ratio: 1.21<br>Failed <sup>5</sup>  | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 2.11<br>Failed <sup>5</sup> | Ratio: 2.50<br>Failed <sup>5</sup> | Ratio: 2.95<br>Failed <sup>5</sup> | Ratio: 3.44<br>AA 18pt <sup>2</sup> | Ratio: 4.02<br>AA 18pt <sup>2</sup> | Ratio: 4.28<br>AA 18pt <sup>2</sup> |
| Hex(9971C0) | Ratio: 1.21<br>Failed <sup>5</sup>  |                                     | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 2.07<br>Failed <sup>5</sup> | Ratio: 2.44<br>Failed <sup>5</sup> | Ratio: 2.85<br>Failed <sup>5</sup>  | Ratio: 3.33<br>AA 18pt <sup>2</sup> | Ratio: 3.54<br>AA 18pt <sup>2</sup> |
| Hex(A284C0) | Ratio: 1.46<br>Failed <sup>5</sup>  | Ratio: 1.20<br>Failed <sup>5</sup>  |                                    | Ratio: 1.21<br>Failed <sup>5</sup> | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.72<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 2.36<br>Failed <sup>5</sup>  | Ratio: 2.76<br>Failed <sup>5</sup>  | Ratio: 2.94<br>Failed <sup>5</sup>  |
| Hex(AC98C0) | Ratio: 1.77<br>Failed <sup>5</sup>  | Ratio: 1.46<br>Failed <sup>5</sup>  | Ratio: 1.21<br>Failed <sup>5</sup> |                                    | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup> | Ratio: 1.95<br>Failed <sup>5</sup>  | Ratio: 2.28<br>Failed <sup>5</sup>  | Ratio: 2.42<br>Failed <sup>5</sup>  |
| Hex(B5ABC0) | Ratio: 2.11<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup>  | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> |                                    | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup>  | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 2.03<br>Failed <sup>5</sup>  |
| Hex(BFBEC0) | Ratio: 2.50<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 1.72<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> |                                    | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup>  | Ratio: 1.61<br>Failed <sup>5</sup>  | Ratio: 1.71<br>Failed <sup>5</sup>  |
| Hex(C9D1C0) | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 2.44<br>Failed <sup>5</sup>  | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> |                                    | Ratio: 1.17<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.45<br>Failed <sup>5</sup>  |
| Hex(D2E4C0) | Ratio: 3.44<br>AA 18pt <sup>2</sup> | Ratio: 2.85<br>Failed <sup>5</sup>  | Ratio: 2.36<br>Failed <sup>5</sup> | Ratio: 1.95<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> |                                     | Ratio: 1.17<br>Failed <sup>5</sup>  | Ratio: 1.24<br>Failed <sup>5</sup>  |
| Hex(DCF8C0) | Ratio: 4.02<br>AA 18pt <sup>2</sup> | Ratio: 3.33<br>AA 18pt <sup>2</sup> | Ratio: 2.76<br>Failed <sup>5</sup> | Ratio: 2.28<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup>  |                                     | Ratio: 1.06<br>Failed <sup>5</sup>  |
| Hex(E5FFC0) | Ratio: 4.28<br>AA 18pt <sup>2</sup> | Ratio: 3.54<br>AA 18pt <sup>2</sup> | Ratio: 2.94<br>Failed <sup>5</sup> | Ratio: 2.42<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup>  | Ratio: 1.06<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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