

# Converting Colors - WCAG Matrix

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

|             | Hex(5E8DF8)                         | Hex(7EA7FF)                        | Hex(9CC2FF)                        | Hex(BADEFF)                        | Hex(D9FAFF)                        | Hex(F7FFFF)                         | Hex(FFFFFF)                         |
|-------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(5E8DF8) |                                     | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 2.26<br>Failed <sup>5</sup> | Ratio: 2.87<br>Failed <sup>5</sup> | Ratio: 3.12<br>AA 18pt <sup>2</sup> | Ratio: 3.16<br>AA 18pt <sup>2</sup> |
| Hex(7EA7FF) | Ratio: 1.33<br>Failed <sup>5</sup>  |                                    | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 2.15<br>Failed <sup>5</sup> | Ratio: 2.34<br>Failed <sup>5</sup>  | Ratio: 2.37<br>Failed <sup>5</sup>  |
| Hex(9CC2FF) | Ratio: 1.74<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup> |                                    | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.79<br>Failed <sup>5</sup>  | Ratio: 1.81<br>Failed <sup>5</sup>  |
| Hex(BADEFF) | Ratio: 2.26<br>Failed <sup>5</sup>  | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> |                                    | Ratio: 1.27<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup>  | Ratio: 1.40<br>Failed <sup>5</sup>  |
| Hex(D9FAFF) | Ratio: 2.87<br>Failed <sup>5</sup>  | Ratio: 2.15<br>Failed <sup>5</sup> | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> |                                    | Ratio: 1.09<br>Failed <sup>5</sup>  | Ratio: 1.10<br>Failed <sup>5</sup>  |
| Hex(F7FFFF) | Ratio: 3.12<br>AA 18pt <sup>2</sup> | Ratio: 2.34<br>Failed <sup>5</sup> | Ratio: 1.79<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |                                     | Ratio: 1.01<br>Failed <sup>5</sup>  |
| Hex(FFFFFF) | Ratio: 3.16<br>AA 18pt <sup>2</sup> | Ratio: 2.37<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> | Ratio: 1.01<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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