

# Converting Colors - WCAG Matrix

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

|             | Hex(D1E3FF)                         | Hex(B8D3FF)                         | Hex(9EC4FF)                        | Hex(85B4FF)                        | Hex(6BA5FF)                        | Hex(5295FF)                        | Hex(3886FF)                        | Hex(1F76FF)                         | Hex(0567FF)                         | Hex(0064FF)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(D1E3FF) |                                     | Ratio: 1.17<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.62<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup> | Ratio: 2.27<br>Failed <sup>5</sup> | Ratio: 2.68<br>Failed <sup>5</sup> | Ratio: 3.17<br>AA 18pt <sup>2</sup> | Ratio: 3.68<br>AA 18pt <sup>2</sup> | Ratio: 3.78<br>AA 18pt <sup>2</sup> |
| Hex(B8D3FF) | Ratio: 1.17<br>Failed <sup>5</sup>  |                                     | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.94<br>Failed <sup>5</sup> | Ratio: 2.29<br>Failed <sup>5</sup> | Ratio: 2.71<br>Failed <sup>5</sup>  | Ratio: 3.14<br>AA 18pt <sup>2</sup> | Ratio: 3.23<br>AA 18pt <sup>2</sup> |
| Hex(9EC4FF) | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.17<br>Failed <sup>5</sup>  |                                    | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 2.32<br>Failed <sup>5</sup>  | Ratio: 2.69<br>Failed <sup>5</sup>  | Ratio: 2.76<br>Failed <sup>5</sup>  |
| Hex(85B4FF) | Ratio: 1.62<br>Failed <sup>5</sup>  | Ratio: 1.38<br>Failed <sup>5</sup>  | Ratio: 1.18<br>Failed <sup>5</sup> |                                    | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.96<br>Failed <sup>5</sup>  | Ratio: 2.27<br>Failed <sup>5</sup>  | Ratio: 2.34<br>Failed <sup>5</sup>  |
| Hex(6BA5FF) | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 1.63<br>Failed <sup>5</sup>  | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> |                                    | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup>  | Ratio: 1.92<br>Failed <sup>5</sup>  | Ratio: 1.98<br>Failed <sup>5</sup>  |
| Hex(5295FF) | Ratio: 2.27<br>Failed <sup>5</sup>  | Ratio: 1.94<br>Failed <sup>5</sup>  | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> |                                    | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup>  | Ratio: 1.62<br>Failed <sup>5</sup>  | Ratio: 1.66<br>Failed <sup>5</sup>  |
| Hex(3886FF) | Ratio: 2.68<br>Failed <sup>5</sup>  | Ratio: 2.29<br>Failed <sup>5</sup>  | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> |                                    | Ratio: 1.18<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.41<br>Failed <sup>5</sup>  |
| Hex(1F76FF) | Ratio: 3.17<br>AA 18pt <sup>2</sup> | Ratio: 2.71<br>Failed <sup>5</sup>  | Ratio: 2.32<br>Failed <sup>5</sup> | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> |                                     | Ratio: 1.16<br>Failed <sup>5</sup>  | Ratio: 1.19<br>Failed <sup>5</sup>  |
| Hex(0567FF) | Ratio: 3.68<br>AA 18pt <sup>2</sup> | Ratio: 3.14<br>AA 18pt <sup>2</sup> | Ratio: 2.69<br>Failed <sup>5</sup> | Ratio: 2.27<br>Failed <sup>5</sup> | Ratio: 1.92<br>Failed <sup>5</sup> | Ratio: 1.62<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup>  |                                     | Ratio: 1.03<br>Failed <sup>5</sup>  |
| Hex(0064FF) | Ratio: 3.78<br>AA 18pt <sup>2</sup> | Ratio: 3.23<br>AA 18pt <sup>2</sup> | Ratio: 2.76<br>Failed <sup>5</sup> | Ratio: 2.34<br>Failed <sup>5</sup> | Ratio: 1.98<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 1.03<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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