

# Converting Colors - WCAG Matrix

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

|             | Hex(FFFDFF)                         | Hex(FFE4FF)                        | Hex(FFCAFF)                        | Hex(FFB1FF)                        | Hex(FF97FF)                        | Hex(FF7EFF)                        | Hex(FF64FF)                        | Hex(FF4BFF)                        | Hex(FF31FF)                        | Hex(FF18FF)                         |
|-------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Hex(FFFDFF) |                                     | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.60<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup> | Ratio: 2.14<br>Failed <sup>5</sup> | Ratio: 2.44<br>Failed <sup>5</sup> | Ratio: 2.69<br>Failed <sup>5</sup> | Ratio: 2.91<br>Failed <sup>5</sup> | Ratio: 3.04<br>AA 18pt <sup>2</sup> |
| Hex(FFE4FF) | Ratio: 1.17<br>Failed <sup>5</sup>  |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.60<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 2.31<br>Failed <sup>5</sup> | Ratio: 2.49<br>Failed <sup>5</sup> | Ratio: 2.61<br>Failed <sup>5</sup>  |
| Hex(FFCAFF) | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.17<br>Failed <sup>5</sup> |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 1.97<br>Failed <sup>5</sup> | Ratio: 2.12<br>Failed <sup>5</sup> | Ratio: 2.22<br>Failed <sup>5</sup>  |
| Hex(FFB1FF) | Ratio: 1.60<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 1.90<br>Failed <sup>5</sup>  |
| Hex(FF97FF) | Ratio: 1.87<br>Failed <sup>5</sup>  | Ratio: 1.60<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> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup>  |
| Hex(FF7EFF) | Ratio: 2.14<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup>  |
| Hex(FF64FF) | Ratio: 2.44<br>Failed <sup>5</sup>  | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup>  |
| Hex(FF4BFF) | Ratio: 2.69<br>Failed <sup>5</sup>  | Ratio: 2.31<br>Failed <sup>5</sup> | Ratio: 1.97<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> |                                    | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.13<br>Failed <sup>5</sup>  |
| Hex(FF31FF) | Ratio: 2.91<br>Failed <sup>5</sup>  | Ratio: 2.49<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: 1.36<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> |                                    | Ratio: 1.05<br>Failed <sup>5</sup>  |
| Hex(FF18FF) | Ratio: 3.04<br>AA 18pt <sup>2</sup> | Ratio: 2.61<br>Failed <sup>5</sup> | Ratio: 2.22<br>Failed <sup>5</sup> | Ratio: 1.90<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.13<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.