

# Converting Colors - WCAG Matrix

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

|             | Hex(5C28A4)                                             | Hex(FFFFFF)                         | Hex(945ADC)                         | Hex(B174F9)                         | Hex(CE8FFF)                         | Hex(EBAAFF)                                             | Hex(FFC6FF)                                             | Hex(FFE2FF)                         |
|-------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|
| Hex(5C28A4) |                                                         | Ratio: 9.15<br>Passed <sup>6</sup>  | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 2.94<br>Failed <sup>5</sup>  | Ratio: 3.92<br>AA 18pt <sup>2</sup> | Ratio: 5.11<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.44<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.66<br>Passed <sup>6</sup>  |
| Hex(FFFFFF) | Ratio: 9.15<br>Passed <sup>6</sup>                      |                                     | Ratio: 4.42<br>AA 18pt <sup>2</sup> | Ratio: 3.12<br>AA 18pt <sup>2</sup> | Ratio: 2.33<br>Failed <sup>5</sup>  | Ratio: 1.79<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 1.19<br>Failed <sup>5</sup>  |
| Hex(945ADC) | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 4.42<br>AA 18pt <sup>2</sup> |                                     | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.89<br>Failed <sup>5</sup>  | Ratio: 2.47<br>Failed <sup>5</sup>                      | Ratio: 3.11<br>AA 18pt <sup>2</sup>                     | Ratio: 3.70<br>AA 18pt <sup>2</sup> |
| Hex(B174F9) | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 3.12<br>AA 18pt <sup>2</sup> | Ratio: 1.42<br>Failed <sup>5</sup>  |                                     | Ratio: 1.34<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup>                      | Ratio: 2.19<br>Failed <sup>5</sup>                      | Ratio: 2.61<br>Failed <sup>5</sup>  |
| Hex(CE8FFF) | Ratio: 3.92<br>AA 18pt <sup>2</sup>                     | Ratio: 2.33<br>Failed <sup>5</sup>  | Ratio: 1.89<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>  |                                     | Ratio: 1.30<br>Failed <sup>5</sup>                      | Ratio: 1.64<br>Failed <sup>5</sup>                      | Ratio: 1.95<br>Failed <sup>5</sup>  |
| Hex(EBAAFF) | Ratio: 5.11<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.79<br>Failed <sup>5</sup>  | Ratio: 2.47<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup>  | Ratio: 1.30<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.26<br>Failed <sup>5</sup>                      | Ratio: 1.50<br>Failed <sup>5</sup>  |
| Hex(FFC6FF) | Ratio: 6.44<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 3.11<br>AA 18pt <sup>2</sup> | Ratio: 2.19<br>Failed <sup>5</sup>  | Ratio: 1.64<br>Failed <sup>5</sup>  | Ratio: 1.26<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.19<br>Failed <sup>5</sup>  |
| Hex(FFE2FF) | Ratio: 7.66<br>Passed <sup>6</sup>                      | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 3.70<br>AA 18pt <sup>2</sup> | Ratio: 2.61<br>Failed <sup>5</sup>  | Ratio: 1.95<br>Failed <sup>5</sup>  | Ratio: 1.50<br>Failed <sup>5</sup>                      | Ratio: 1.19<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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