

# Converting Colors - WCAG Matrix

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

|             | Hex(FA00B2)                         | Hex(FFFFFF)                         | Hex(FF65EA)                        | Hex(FF85FF)                        | Hex(FFA4FF)                        | Hex(FFC3FF)                        | Hex(FFE2FF)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Hex(FA00B2) |                                     | Ratio: 3.68<br>AA 18pt <sup>2</sup> | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 2.54<br>Failed <sup>5</sup> | Ratio: 3.08<br>AA 18pt <sup>2</sup> |
| Hex(FFFFFF) | Ratio: 3.68<br>AA 18pt <sup>2</sup> |                                     | Ratio: 2.53<br>Failed <sup>5</sup> | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup>  |
| Hex(FF65EA) | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 2.53<br>Failed <sup>5</sup>  |                                    | Ratio: 1.21<br>Failed <sup>5</sup> | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 2.12<br>Failed <sup>5</sup>  |
| Hex(FF85FF) | Ratio: 1.76<br>Failed <sup>5</sup>  | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 1.21<br>Failed <sup>5</sup> |                                    | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup>  |
| Hex(FFA4FF) | Ratio: 2.10<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>  | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> |                                    | Ratio: 1.21<br>Failed <sup>5</sup> | Ratio: 1.46<br>Failed <sup>5</sup>  |
| Hex(FFC3FF) | Ratio: 2.54<br>Failed <sup>5</sup>  | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.21<br>Failed <sup>5</sup> |                                    | Ratio: 1.21<br>Failed <sup>5</sup>  |
| Hex(FFE2FF) | Ratio: 3.08<br>AA 18pt <sup>2</sup> | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 2.12<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 1.21<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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