

# Converting Colors - WCAG Matrix

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

Hex(96509C) Hex(FFFFFF) Hex(CE84D3) Hex(EB9FEF) Hex(FFBAFF) Hex(FFD6FF) Hex(FFF3FF)

|             | Hex(96509C)                                             | Hex(FFFFFF)                                             | Hex(CE84D3)                        | Hex(EB9FEF)                        | Hex(FFBAFF)                         | Hex(FFD6FF)                         | Hex(FFF3FF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(96509C) |                                                         | Ratio: 5.35<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.00<br>Failed <sup>5</sup> | Ratio: 2.74<br>Failed <sup>5</sup> | Ratio: 3.50<br>AA 18pt <sup>2</sup> | Ratio: 4.16<br>AA 18pt <sup>2</sup> | Ratio: 4.97<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(FFFFFF) | Ratio: 5.35<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 2.67<br>Failed <sup>5</sup> | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup>  | Ratio: 1.29<br>Failed <sup>5</sup>  | Ratio: 1.08<br>Failed <sup>5</sup>                      |
| Hex(CE84D3) | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 2.67<br>Failed <sup>5</sup>                      |                                    | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 2.48<br>Failed <sup>5</sup>                      |
| Hex(EB9FEF) | Ratio: 2.74<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.37<br>Failed <sup>5</sup> |                                    | Ratio: 1.28<br>Failed <sup>5</sup>  | Ratio: 1.52<br>Failed <sup>5</sup>  | Ratio: 1.82<br>Failed <sup>5</sup>                      |
| Hex(FFBAFF) | Ratio: 3.50<br>AA 18pt <sup>2</sup>                     | Ratio: 1.53<br>Failed <sup>5</sup>                      | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> |                                     | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 1.42<br>Failed <sup>5</sup>                      |
| Hex(FFD6FF) | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup>  |                                     | Ratio: 1.20<br>Failed <sup>5</sup>                      |
| Hex(FFF3FF) | Ratio: 4.97<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.08<br>Failed <sup>5</sup>                      | Ratio: 2.48<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.20<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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