

# Converting Colors - WCAG Matrix

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

|             | Hex(3F0A5F)                                             | Hex(FF8FF)                                              | Hex(723D93)                                             | Hex(8D55AE)                                             | Hex(A86FC9)                         | Hex(C489E5)                                             | Hex(E1A4FF)                         | Hex(FEBFFF)                                             | Hex(FFDBFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(3F0A5F) |                                                         | Ratio: 14.17<br>Passed <sup>6</sup>                     | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 2.85<br>Failed <sup>5</sup>                      | Ratio: 4.07<br>AA 18pt <sup>2</sup> | Ratio: 5.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.72<br>Passed <sup>6</sup>  | Ratio: 9.94<br>Passed <sup>6</sup>                      | Ratio: 11.85<br>Passed <sup>6</sup>                     |
| Hex(FF8FF)  | Ratio: 14.17<br>Passed <sup>6</sup>                     |                                                         | Ratio: 7.18<br>Passed <sup>6</sup>                      | Ratio: 4.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.48<br>AA 18pt <sup>2</sup> | Ratio: 2.50<br>Failed <sup>5</sup>                      | Ratio: 1.84<br>Failed <sup>5</sup>  | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 1.20<br>Failed <sup>5</sup>                      |
| Hex(723D93) | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 7.18<br>Passed <sup>6</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 2.87<br>Failed <sup>5</sup>                      | Ratio: 3.91<br>AA 18pt <sup>2</sup> | Ratio: 5.03<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.00<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(8D55AE) | Ratio: 2.85<br>Failed <sup>5</sup>                      | Ratio: 4.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 2.71<br>Failed <sup>5</sup>  | Ratio: 3.49<br>AA 18pt <sup>2</sup>                     | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     |
| Hex(A86FC9) | Ratio: 4.07<br>AA 18pt <sup>2</sup>                     | Ratio: 3.48<br>AA 18pt <sup>2</sup>                     | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>  | Ratio: 2.44<br>Failed <sup>5</sup>                      | Ratio: 2.91<br>Failed <sup>5</sup>                      |
| Hex(C489E5) | Ratio: 5.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.50<br>Failed <sup>5</sup>                      | Ratio: 2.87<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>                      |
| Hex(E1A4FF) | Ratio: 7.72<br>Passed <sup>6</sup>                      | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 3.91<br>AA 18pt <sup>2</sup>                     | Ratio: 2.71<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 1.54<br>Failed <sup>5</sup>                      |
| Hex(FEBFFF) | Ratio: 9.94<br>Passed <sup>6</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 5.03<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.49<br>AA 18pt <sup>2</sup>                     | Ratio: 2.44<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 1.29<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.19<br>Failed <sup>5</sup>                      |
| Hex(FFDBFF) | Ratio: 11.85<br>Passed <sup>6</sup>                     | Ratio: 1.20<br>Failed <sup>5</sup>                      | Ratio: 6.00<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 2.91<br>Failed <sup>5</sup>  | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 1.54<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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