

# Converting Colors - WCAG Matrix

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

|             | Hex(2800AD)                                             | Hex(4E22C9)                                             | Hex(6F3DE6)                                             | Hex(8D57FF)                         | Hex(AC71FF)                         | Hex(CA8CFF)                                             | Hex(E9A7FF)                                             | Hex(FFC3FF)                                             | Hex(FFE0FF)                                             | Hex(FFDFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(2800AD) |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 2.92<br>Failed <sup>5</sup>  | Ratio: 3.87<br>AA 18pt <sup>2</sup> | Ratio: 5.14<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.75<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 8.56<br>Passed <sup>6</sup>                      | Ratio: 10.25<br>Passed <sup>6</sup>                     | Ratio: 12.25<br>Passed <sup>6</sup>                     |
| Hex(4E22C9) | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 2.74<br>Failed <sup>5</sup>  | Ratio: 3.63<br>AA 18pt <sup>2</sup>                     | Ratio: 4.77<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.05<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.24<br>Passed <sup>6</sup>                      | Ratio: 8.66<br>Passed <sup>6</sup>                      |
| Hex(6F3DE6) | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 2.50<br>Failed <sup>5</sup>                      | Ratio: 3.28<br>AA 18pt <sup>2</sup>                     | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 4.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.95<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(8D57FF) | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.33<br>Failed <sup>5</sup>  | Ratio: 1.76<br>Failed <sup>5</sup>                      | Ratio: 2.32<br>Failed <sup>5</sup>                      | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 3.51<br>AA 18pt <sup>2</sup>                     | Ratio: 4.20<br>AA 18pt <sup>2</sup>                     |
| Hex(AC71FF) | Ratio: 3.87<br>AA 18pt <sup>2</sup>                     | Ratio: 2.74<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>  |                                     | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.74<br>Failed <sup>5</sup>                      | Ratio: 2.21<br>Failed <sup>5</sup>                      | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 3.16<br>AA 18pt <sup>2</sup>                     |
| Hex(CA8CFF) | Ratio: 5.14<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.63<br>AA 18pt <sup>2</sup>                     | Ratio: 2.50<br>Failed <sup>5</sup>                      | Ratio: 1.76<br>Failed <sup>5</sup>  | Ratio: 1.33<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.67<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 2.38<br>Failed <sup>5</sup>                      |
| Hex(E9A7FF) | Ratio: 6.75<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.77<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.28<br>AA 18pt <sup>2</sup>                     | Ratio: 2.32<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.27<br>Failed <sup>5</sup>                      | Ratio: 1.52<br>Failed <sup>5</sup>                      | Ratio: 1.81<br>Failed <sup>5</sup>                      |
| Hex(FFC3FF) | Ratio: 8.56<br>Passed <sup>6</sup>                      | Ratio: 6.05<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 2.94<br>Failed <sup>5</sup>  | Ratio: 2.21<br>Failed <sup>5</sup>  | Ratio: 1.67<br>Failed <sup>5</sup>                      | Ratio: 1.27<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.20<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |
| Hex(FFE0FF) | Ratio: 10.25<br>Passed <sup>6</sup>                     | Ratio: 7.24<br>Passed <sup>6</sup>                      | Ratio: 4.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.51<br>AA 18pt <sup>2</sup> | Ratio: 2.65<br>Failed <sup>5</sup>  | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 1.52<br>Failed <sup>5</sup>                      | Ratio: 1.20<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.20<br>Failed <sup>5</sup>                      |
| Hex(FFDFFF) | Ratio: 12.25<br>Passed <sup>6</sup>                     | Ratio: 8.66<br>Passed <sup>6</sup>                      | Ratio: 5.95<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.20<br>AA 18pt <sup>2</sup> | Ratio: 3.16<br>AA 18pt <sup>2</sup> | Ratio: 2.38<br>Failed <sup>5</sup>                      | Ratio: 1.81<br>Failed <sup>5</sup>                      | Ratio: 1.43<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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