

# Converting Colors - WCAG Matrix

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

|             | Hex(7356DD)                                             | Hex(846CDD)                         | Hex(9682DD)                         | Hex(A798DD)                        | Hex(B8AEDD)                        | Hex(CAC5DD)                         | Hex(DBDBDD)                         | Hex(ECF1DD)                         | Hex(FFFFDD)                                             | Hex(FFFFDD)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(7356DD) |                                                         | Ratio: 1.26<br>Failed <sup>5</sup>  | Ratio: 1.59<br>Failed <sup>5</sup>  | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 2.47<br>Failed <sup>5</sup> | Ratio: 3.06<br>AA 18pt <sup>2</sup> | Ratio: 3.70<br>AA 18pt <sup>2</sup> | Ratio: 4.43<br>AA 18pt <sup>2</sup> | Ratio: 5.01<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.02<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(846CDD) | Ratio: 1.26<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.26<br>Failed <sup>5</sup>  | Ratio: 1.58<br>Failed <sup>5</sup> | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 2.43<br>Failed <sup>5</sup>  | Ratio: 2.94<br>Failed <sup>5</sup>  | Ratio: 3.52<br>AA 18pt <sup>2</sup> | Ratio: 3.98<br>AA 18pt <sup>2</sup>                     | Ratio: 3.98<br>AA 18pt <sup>2</sup>                     |
| Hex(9682DD) | Ratio: 1.59<br>Failed <sup>5</sup>                      | Ratio: 1.26<br>Failed <sup>5</sup>  |                                     | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.92<br>Failed <sup>5</sup>  | Ratio: 2.32<br>Failed <sup>5</sup>  | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 3.15<br>AA 18pt <sup>2</sup>                     | Ratio: 3.15<br>AA 18pt <sup>2</sup>                     |
| Hex(A798DD) | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 1.58<br>Failed <sup>5</sup>  | Ratio: 1.25<br>Failed <sup>5</sup>  |                                    | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup>  | Ratio: 1.86<br>Failed <sup>5</sup>  | Ratio: 2.22<br>Failed <sup>5</sup>  | Ratio: 2.51<br>Failed <sup>5</sup>                      | Ratio: 2.52<br>Failed <sup>5</sup>                      |
| Hex(B8AEDD) | Ratio: 2.47<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>  | Ratio: 1.55<br>Failed <sup>5</sup>  | Ratio: 1.24<br>Failed <sup>5</sup> |                                    | Ratio: 1.24<br>Failed <sup>5</sup>  | Ratio: 1.50<br>Failed <sup>5</sup>  | Ratio: 1.79<br>Failed <sup>5</sup>  | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      |
| Hex(CAC5DD) | Ratio: 3.06<br>AA 18pt <sup>2</sup>                     | Ratio: 2.43<br>Failed <sup>5</sup>  | Ratio: 1.92<br>Failed <sup>5</sup>  | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> |                                     | Ratio: 1.21<br>Failed <sup>5</sup>  | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 1.64<br>Failed <sup>5</sup>                      | Ratio: 1.64<br>Failed <sup>5</sup>                      |
| Hex(DBDBDD) | Ratio: 3.70<br>AA 18pt <sup>2</sup>                     | Ratio: 2.94<br>Failed <sup>5</sup>  | Ratio: 2.32<br>Failed <sup>5</sup>  | Ratio: 1.86<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.21<br>Failed <sup>5</sup>  |                                     | Ratio: 1.20<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |
| Hex(ECF1DD) | Ratio: 4.43<br>AA 18pt <sup>2</sup>                     | Ratio: 3.52<br>AA 18pt <sup>2</sup> | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 2.22<br>Failed <sup>5</sup> | Ratio: 1.79<br>Failed <sup>5</sup> | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 1.20<br>Failed <sup>5</sup>  |                                     | Ratio: 1.13<br>Failed <sup>5</sup>                      | Ratio: 1.13<br>Failed <sup>5</sup>                      |
| Hex(FFFFDD) | Ratio: 5.01<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.98<br>AA 18pt <sup>2</sup> | Ratio: 3.15<br>AA 18pt <sup>2</sup> | Ratio: 2.51<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 1.64<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup>  | Ratio: 1.13<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.00<br>Failed <sup>5</sup>                      |
| Hex(FFFFDD) | Ratio: 5.02<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.98<br>AA 18pt <sup>2</sup> | Ratio: 3.15<br>AA 18pt <sup>2</sup> | Ratio: 2.52<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 1.64<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.13<br>Failed <sup>5</sup>  | Ratio: 1.00<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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