

# Converting Colors - WCAG Matrix

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

|             | Hex(CFD7E7)                                             | Hex(B8C8E7)                         | Hex(A1B8E7)                         | Hex(8AA9E7)                        | Hex(7399E7)                        | Hex(5C8AE7)                        | Hex(447BE7)                        | Hex(2D6BE7)                         | Hex(165CE7)                         | Hex(004DE7)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(CFD7E7) |                                                         | Ratio: 1.17<br>Failed <sup>5</sup>  | Ratio: 1.38<br>Failed <sup>5</sup>  | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.95<br>Failed <sup>5</sup> | Ratio: 2.33<br>Failed <sup>5</sup> | Ratio: 2.78<br>Failed <sup>5</sup> | Ratio: 3.33<br>AA 18pt <sup>2</sup> | Ratio: 3.91<br>AA 18pt <sup>2</sup> | Ratio: 4.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(B8C8E7) | Ratio: 1.17<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.18<br>Failed <sup>5</sup>  | Ratio: 1.40<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> | Ratio: 2.85<br>Failed <sup>5</sup>  | Ratio: 3.35<br>AA 18pt <sup>2</sup> | Ratio: 3.87<br>AA 18pt <sup>2</sup>                     |
| Hex(A1B8E7) | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.18<br>Failed <sup>5</sup>  |                                     | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 2.01<br>Failed <sup>5</sup> | Ratio: 2.41<br>Failed <sup>5</sup>  | Ratio: 2.83<br>Failed <sup>5</sup>  | Ratio: 3.27<br>AA 18pt <sup>2</sup>                     |
| Hex(8AA9E7) | Ratio: 1.63<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>  | Ratio: 1.18<br>Failed <sup>5</sup>  |                                    | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.43<br>Failed <sup>5</sup> | Ratio: 1.70<br>Failed <sup>5</sup> | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 2.40<br>Failed <sup>5</sup>  | Ratio: 2.77<br>Failed <sup>5</sup>                      |
| Hex(7399E7) | Ratio: 1.95<br>Failed <sup>5</sup>                      | Ratio: 1.67<br>Failed <sup>5</sup>  | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.20<br>Failed <sup>5</sup> |                                    | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.70<br>Failed <sup>5</sup>  | Ratio: 2.00<br>Failed <sup>5</sup>  | Ratio: 2.31<br>Failed <sup>5</sup>                      |
| Hex(5C8AE7) | Ratio: 2.33<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>  | Ratio: 1.69<br>Failed <sup>5</sup>  | Ratio: 1.43<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> |                                    | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 1.68<br>Failed <sup>5</sup>  | Ratio: 1.94<br>Failed <sup>5</sup>                      |
| Hex(447BE7) | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 2.38<br>Failed <sup>5</sup>  | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 1.70<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> |                                    | Ratio: 1.20<br>Failed <sup>5</sup>  | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.63<br>Failed <sup>5</sup>                      |
| Hex(2D6BE7) | Ratio: 3.33<br>AA 18pt <sup>2</sup>                     | Ratio: 2.85<br>Failed <sup>5</sup>  | Ratio: 2.41<br>Failed <sup>5</sup>  | Ratio: 2.04<br>Failed <sup>5</sup> | Ratio: 1.70<br>Failed <sup>5</sup> | Ratio: 1.43<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> |                                     | Ratio: 1.17<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>                      |
| Hex(165CE7) | Ratio: 3.91<br>AA 18pt <sup>2</sup>                     | Ratio: 3.35<br>AA 18pt <sup>2</sup> | Ratio: 2.83<br>Failed <sup>5</sup>  | Ratio: 2.40<br>Failed <sup>5</sup> | Ratio: 2.00<br>Failed <sup>5</sup> | Ratio: 1.68<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup>  |                                     | Ratio: 1.16<br>Failed <sup>5</sup>                      |
| Hex(004DE7) | Ratio: 4.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.87<br>AA 18pt <sup>2</sup> | Ratio: 3.27<br>AA 18pt <sup>2</sup> | Ratio: 2.77<br>Failed <sup>5</sup> | Ratio: 2.31<br>Failed <sup>5</sup> | Ratio: 1.94<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.16<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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