

# Converting Colors - WCAG Matrix

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

|             | Hex(CFD7E7)                                             | Hex(B3BBCB)                                             | Hex(99A0AF)                                             | Hex(7F8695)                                             | Hex(656D7B)                                             | Hex(4D5562)                                             | Hex(363E4A)                                             | Hex(212834)                                             | Hex(0B131F)                                             | Hex(FFFFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(CFD7E7) |                                                         | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 2.53<br>Failed <sup>5</sup>                      | Ratio: 3.61<br>AA 18pt <sup>2</sup>                     | Ratio: 5.20<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.47<br>Passed <sup>6</sup>                      | Ratio: 10.25<br>Passed <sup>6</sup>                     | Ratio: 12.89<br>Passed <sup>6</sup>                     | Ratio: 1.45<br>Failed <sup>5</sup>                      |
| Hex(B3BBCB) | Ratio: 1.33<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>                      | Ratio: 2.70<br>Failed <sup>5</sup>                      | Ratio: 3.90<br>AA 18pt <sup>2</sup>                     | Ratio: 5.60<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.68<br>Passed <sup>6</sup>                      | Ratio: 9.66<br>Passed <sup>6</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>                      |
| Hex(99A0AF) | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 2.87<br>Failed <sup>5</sup>                      | Ratio: 4.11<br>AA 18pt <sup>2</sup>                     | Ratio: 5.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.10<br>Passed <sup>6</sup>                      | Ratio: 2.62<br>Failed <sup>5</sup>                      |
| Hex(7F8695) | Ratio: 2.53<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 5.10<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.65<br>AA 18pt <sup>2</sup>                     |
| Hex(656D7B) | Ratio: 3.61<br>AA 18pt <sup>2</sup>                     | Ratio: 2.70<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 2.84<br>Failed <sup>5</sup>                      | Ratio: 3.57<br>AA 18pt <sup>2</sup>                     | Ratio: 5.22<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(4D5562) | Ratio: 5.20<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.90<br>AA 18pt <sup>2</sup>                     | Ratio: 2.87<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 2.48<br>Failed <sup>5</sup>                      | Ratio: 7.52<br>Passed <sup>6</sup>                      |
| Hex(363E4A) | Ratio: 7.47<br>Passed <sup>6</sup>                      | Ratio: 5.60<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.11<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.73<br>Failed <sup>5</sup>                      | Ratio: 10.80<br>Passed <sup>6</sup>                     |
| Hex(212834) | Ratio: 10.25<br>Passed <sup>6</sup>                     | Ratio: 7.68<br>Passed <sup>6</sup>                      | Ratio: 5.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 2.84<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.26<br>Failed <sup>5</sup>                      | Ratio: 14.81<br>Passed <sup>6</sup>                     |
| Hex(0B131F) | Ratio: 12.89<br>Passed <sup>6</sup>                     | Ratio: 9.66<br>Passed <sup>6</sup>                      | Ratio: 7.10<br>Passed <sup>6</sup>                      | Ratio: 5.10<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.57<br>AA 18pt <sup>2</sup>                     | Ratio: 2.48<br>Failed <sup>5</sup>                      | Ratio: 1.73<br>Failed <sup>5</sup>                      | Ratio: 1.26<br>Failed <sup>5</sup>                      |                                                         | Ratio: 18.63<br>Passed <sup>6</sup>                     |
| Hex(FFFFFF) | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>                      | Ratio: 2.62<br>Failed <sup>5</sup>                      | Ratio: 3.65<br>AA 18pt <sup>2</sup>                     | Ratio: 5.22<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.52<br>Passed <sup>6</sup>                      | Ratio: 10.80<br>Passed <sup>6</sup>                     | Ratio: 14.81<br>Passed <sup>6</sup>                     | Ratio: 18.63<br>Passed <sup>6</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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