

# Converting Colors - WCAG Matrix

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

|             | Hex(3E4651)                                             | Hex(FFFFFF)                                             | Hex(6E7682)                                             | Hex(87909C)                         | Hex(A2AAB7)                         | Hex(BDC6D3)                                             | Hex(D8E2EF)                         | Hex(F5FEFF)                         |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|
| Hex(3E4651) |                                                         | Ratio: 9.55<br>Passed <sup>6</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 4.08<br>AA 18pt <sup>2</sup> | Ratio: 5.54<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.29<br>Passed <sup>6</sup>  | Ratio: 9.32<br>Passed <sup>6</sup>  |
| Hex(FFFFFF) | Ratio: 9.55<br>Passed <sup>6</sup>                      |                                                         | Ratio: 4.59<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.23<br>AA 18pt <sup>2</sup> | Ratio: 2.34<br>Failed <sup>5</sup>  | Ratio: 1.72<br>Failed <sup>5</sup>                      | Ratio: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.02<br>Failed <sup>5</sup>  |
| Hex(6E7682) | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 4.59<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.96<br>Failed <sup>5</sup>  | Ratio: 2.66<br>Failed <sup>5</sup>                      | Ratio: 3.51<br>AA 18pt <sup>2</sup> | Ratio: 4.48<br>AA 18pt <sup>2</sup> |
| Hex(87909C) | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 3.23<br>AA 18pt <sup>2</sup>                     | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.38<br>Failed <sup>5</sup>  | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 2.47<br>Failed <sup>5</sup>  | Ratio: 3.15<br>AA 18pt <sup>2</sup> |
| Hex(A2AAB7) | Ratio: 4.08<br>AA 18pt <sup>2</sup>                     | Ratio: 2.34<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.38<br>Failed <sup>5</sup>  |                                     | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.79<br>Failed <sup>5</sup>  | Ratio: 2.29<br>Failed <sup>5</sup>  |
| Hex(BDC6D3) | Ratio: 5.54<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.72<br>Failed <sup>5</sup>                      | Ratio: 2.66<br>Failed <sup>5</sup>                      | Ratio: 1.87<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 1.68<br>Failed <sup>5</sup>  |
| Hex(D8E2EF) | Ratio: 7.29<br>Passed <sup>6</sup>                      | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 3.51<br>AA 18pt <sup>2</sup>                     | Ratio: 2.47<br>Failed <sup>5</sup>  | Ratio: 1.79<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.28<br>Failed <sup>5</sup>  |
| Hex(F5FEFF) | Ratio: 9.32<br>Passed <sup>6</sup>                      | Ratio: 1.02<br>Failed <sup>5</sup>                      | Ratio: 4.48<br>AA 18pt <sup>2</sup>                     | Ratio: 3.15<br>AA 18pt <sup>2</sup> | Ratio: 2.29<br>Failed <sup>5</sup>  | Ratio: 1.68<br>Failed <sup>5</sup>                      | Ratio: 1.28<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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