

# Converting Colors - WCAG Matrix

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

|             | Hex(004860)                                             | Hex(FFFFFF)                                             | Hex(437893)                                             | Hex(5E92AD)                         | Hex(79ADC9)                         | Hex(94C8E5)                                             | Hex(B0E4FF)                         | Hex(CCFFFF)                         | Hex(E9FFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(004860) |                                                         | Ratio: 10.02<br>Passed <sup>6</sup>                     | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 4.12<br>AA 18pt <sup>2</sup> | Ratio: 5.56<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.34<br>Passed <sup>6</sup>  | Ratio: 9.22<br>Passed <sup>6</sup>  | Ratio: 9.64<br>Passed <sup>6</sup>                      |
| Hex(FFFFFF) | Ratio: 10.02<br>Passed <sup>6</sup>                     |                                                         | Ratio: 4.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.39<br>AA 18pt <sup>2</sup> | Ratio: 2.43<br>Failed <sup>5</sup>  | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.09<br>Failed <sup>5</sup>  | Ratio: 1.04<br>Failed <sup>5</sup>                      |
| Hex(437893) | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 4.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.99<br>Failed <sup>5</sup>  | Ratio: 2.68<br>Failed <sup>5</sup>                      | Ratio: 3.54<br>AA 18pt <sup>2</sup> | Ratio: 4.44<br>AA 18pt <sup>2</sup> | Ratio: 4.65<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(5E92AD) | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 3.39<br>AA 18pt <sup>2</sup>                     | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.39<br>Failed <sup>5</sup>  | Ratio: 1.88<br>Failed <sup>5</sup>                      | Ratio: 2.49<br>Failed <sup>5</sup>  | Ratio: 3.12<br>AA 18pt <sup>2</sup> | Ratio: 3.26<br>AA 18pt <sup>2</sup>                     |
| Hex(79ADC9) | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 2.43<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>  |                                     | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.78<br>Failed <sup>5</sup>  | Ratio: 2.24<br>Failed <sup>5</sup>  | Ratio: 2.34<br>Failed <sup>5</sup>                      |
| Hex(94C8E5) | Ratio: 5.56<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 2.68<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 1.66<br>Failed <sup>5</sup>  | Ratio: 1.73<br>Failed <sup>5</sup>                      |
| Hex(B0E4FF) | Ratio: 7.34<br>Passed <sup>6</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 3.54<br>AA 18pt <sup>2</sup>                     | Ratio: 2.49<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.26<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup>                      |
| Hex(CCFFFF) | Ratio: 9.22<br>Passed <sup>6</sup>                      | Ratio: 1.09<br>Failed <sup>5</sup>                      | Ratio: 4.44<br>AA 18pt <sup>2</sup>                     | Ratio: 3.12<br>AA 18pt <sup>2</sup> | Ratio: 2.24<br>Failed <sup>5</sup>  | Ratio: 1.66<br>Failed <sup>5</sup>                      | Ratio: 1.26<br>Failed <sup>5</sup>  |                                     | Ratio: 1.05<br>Failed <sup>5</sup>                      |
| Hex(E9FFFF) | Ratio: 9.64<br>Passed <sup>6</sup>                      | Ratio: 1.04<br>Failed <sup>5</sup>                      | Ratio: 4.65<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.26<br>AA 18pt <sup>2</sup> | Ratio: 2.34<br>Failed <sup>5</sup>  | Ratio: 1.73<br>Failed <sup>5</sup>                      | Ratio: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.05<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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