

# Converting Colors - WCAG Matrix

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

|             | Hex(3B625E)                                             | Hex(FFFFFF)                                             | Hex(6C9590)                         | Hex(86AFAB)                        | Hex(A1CBC6)                         | Hex(BCE7E2)                                             | Hex(D8FFFF)                                             | Hex(F5FFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(3B625E) |                                                         | Ratio: 6.79<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.05<br>Failed <sup>5</sup>  | Ratio: 2.82<br>Failed <sup>5</sup> | Ratio: 3.84<br>AA 18pt <sup>2</sup> | Ratio: 5.06<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.36<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(FFFFFF) | Ratio: 6.79<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 3.31<br>AA 18pt <sup>2</sup> | Ratio: 2.40<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.07<br>Failed <sup>5</sup>                      | Ratio: 1.02<br>Failed <sup>5</sup>                      |
| Hex(6C9590) | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 3.31<br>AA 18pt <sup>2</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: 3.10<br>AA 18pt <sup>2</sup>                     | Ratio: 3.25<br>AA 18pt <sup>2</sup>                     |
| Hex(86AFAB) | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 2.40<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: 2.25<br>Failed <sup>5</sup>                      | Ratio: 2.36<br>Failed <sup>5</sup>                      |
| Hex(A1CBC6) | Ratio: 3.84<br>AA 18pt <sup>2</sup>                     | Ratio: 1.77<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: 1.66<br>Failed <sup>5</sup>                      | Ratio: 1.74<br>Failed <sup>5</sup>                      |
| Hex(BCE7E2) | Ratio: 5.06<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.34<br>Failed <sup>5</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: 1.26<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>                      |
| Hex(D8FFFF) | Ratio: 6.36<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.07<br>Failed <sup>5</sup>                      | Ratio: 3.10<br>AA 18pt <sup>2</sup> | Ratio: 2.25<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(F5FFFF) | Ratio: 6.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.02<br>Failed <sup>5</sup>                      | Ratio: 3.25<br>AA 18pt <sup>2</sup> | Ratio: 2.36<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup>  | Ratio: 1.32<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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