

# Converting Colors - WCAG Matrix

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

Hex(476C6F) Hex(FFFFFF) Hex(79A0A3) Hex(94BBBE) Hex(AFD6D9) Hex(CAF3F6) Hex(E7FFFF)

|             | Hex(476C6F)                                             | Hex(FFFFFF)                                             | Hex(79A0A3)                        | Hex(94BBBE)                        | Hex(AFD6D9)                         | Hex(CAF3F6)                                             | Hex(E7FFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(476C6F) |                                                         | Ratio: 5.77<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.02<br>Failed <sup>5</sup> | Ratio: 2.78<br>Failed <sup>5</sup> | Ratio: 3.69<br>AA 18pt <sup>2</sup> | Ratio: 4.85<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(FFFFFF) | Ratio: 5.77<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 2.85<br>Failed <sup>5</sup> | Ratio: 2.08<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup>  | Ratio: 1.19<br>Failed <sup>5</sup>                      | Ratio: 1.04<br>Failed <sup>5</sup>                      |
| Hex(79A0A3) | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 2.85<br>Failed <sup>5</sup>                      |                                    | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup>  | Ratio: 2.40<br>Failed <sup>5</sup>                      | Ratio: 2.73<br>Failed <sup>5</sup>                      |
| Hex(94BBBE) | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.37<br>Failed <sup>5</sup> |                                    | Ratio: 1.33<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      |
| Hex(AFD6D9) | Ratio: 3.69<br>AA 18pt <sup>2</sup>                     | Ratio: 1.56<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> |                                     | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.50<br>Failed <sup>5</sup>                      |
| Hex(CAF3F6) | Ratio: 4.85<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.19<br>Failed <sup>5</sup>                      | Ratio: 2.40<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.14<br>Failed <sup>5</sup>                      |
| Hex(E7FFFF) | Ratio: 5.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.04<br>Failed <sup>5</sup>                      | Ratio: 2.73<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup>  | Ratio: 1.14<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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