

# Converting Colors - WCAG Matrix

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

|             | Hex(708080)                         | Hex(899A9A)                        | Hex(A4B5B5)                        | Hex(BFD0D0)                        | Hex(DBEDED)                         | Hex(F7FFFF)                         | Hex(FFFFFF)                         |
|-------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(708080) |                                     | Ratio: 1.41<br>Failed <sup>5</sup> | Ratio: 1.94<br>Failed <sup>5</sup> | Ratio: 2.58<br>Failed <sup>5</sup> | Ratio: 3.41<br>AA 18pt <sup>2</sup> | Ratio: 4.07<br>AA 18pt <sup>2</sup> | Ratio: 4.13<br>AA 18pt <sup>2</sup> |
| Hex(899A9A) | Ratio: 1.41<br>Failed <sup>5</sup>  |                                    | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 2.43<br>Failed <sup>5</sup>  | Ratio: 2.89<br>Failed <sup>5</sup>  | Ratio: 2.94<br>Failed <sup>5</sup>  |
| Hex(A4B5B5) | Ratio: 1.94<br>Failed <sup>5</sup>  | Ratio: 1.38<br>Failed <sup>5</sup> |                                    | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup>  | Ratio: 2.10<br>Failed <sup>5</sup>  | Ratio: 2.13<br>Failed <sup>5</sup>  |
| Hex(BFD0D0) | Ratio: 2.58<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> |                                    | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 1.57<br>Failed <sup>5</sup>  | Ratio: 1.60<br>Failed <sup>5</sup>  |
| Hex(DBEDED) | Ratio: 3.41<br>AA 18pt <sup>2</sup> | Ratio: 2.43<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> |                                     | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 1.21<br>Failed <sup>5</sup>  |
| Hex(F7FFFF) | Ratio: 4.07<br>AA 18pt <sup>2</sup> | Ratio: 2.89<br>Failed <sup>5</sup> | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 1.57<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup>  |                                     | Ratio: 1.01<br>Failed <sup>5</sup>  |
| Hex(FFFFFF) | Ratio: 4.13<br>AA 18pt <sup>2</sup> | Ratio: 2.94<br>Failed <sup>5</sup> | Ratio: 2.13<br>Failed <sup>5</sup> | Ratio: 1.60<br>Failed <sup>5</sup> | Ratio: 1.21<br>Failed <sup>5</sup>  | Ratio: 1.01<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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