

# Converting Colors - WCAG Matrix

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

|             | Hex(004278)                        | Hex(0C4778)                        | Hex(184D78)                        | Hex(245278)                        | Hex(305778)                        | Hex(3C5D78)                        | Hex(486278)                        | Hex(546878)                        | Hex(606D78)                        | Hex(6C7278)                        |
|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Hex(004278) |                                    | Ratio: 1.07<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 1.93<br>Failed <sup>5</sup> | Ratio: 2.10<br>Failed <sup>5</sup> |
| Hex(0C4778) | Ratio: 1.07<br>Failed <sup>5</sup> |                                    | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 1.97<br>Failed <sup>5</sup> |
| Hex(184D78) | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> |                                    | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup> |
| Hex(245278) | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> |                                    | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> |
| Hex(305778) | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> |                                    | Ratio: 1.10<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.43<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> |
| Hex(3C5D78) | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> |                                    | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> |
| Hex(486278) | Ratio: 1.61<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |                                    | Ratio: 1.10<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> |
| Hex(546878) | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> |                                    | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> |
| Hex(606D78) | Ratio: 1.93<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.43<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |                                    | Ratio: 1.09<br>Failed <sup>5</sup> |
| Hex(6C7278) | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 1.97<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.09<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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