

# Converting Colors - WCAG Matrix

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

|             | Hex(969696)                        | Hex(968787)                        | Hex(967878)                        | Hex(966969)                        | Hex(965A5A)                        | Hex(964B4B)                        | Hex(963C3C)                        | Hex(962D2D)                        | Hex(961E1E)                        | Hex(960F0F)                        |
|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Hex(969696) |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.57<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 2.36<br>Failed <sup>5</sup> | Ratio: 2.62<br>Failed <sup>5</sup> | Ratio: 2.84<br>Failed <sup>5</sup> | Ratio: 2.99<br>Failed <sup>5</sup> |
| Hex(968787) | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.80<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 2.26<br>Failed <sup>5</sup> | Ratio: 2.44<br>Failed <sup>5</sup> | Ratio: 2.58<br>Failed <sup>5</sup> |
| Hex(967878) | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.94<br>Failed <sup>5</sup> | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 2.22<br>Failed <sup>5</sup> |
| Hex(966969) | Ratio: 1.57<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup> |
| Hex(965A5A) | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.65<br>Failed <sup>5</sup> |
| Hex(964B4B) | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 1.80<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.13<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> |
| Hex(963C3C) | Ratio: 2.36<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.13<br>Failed <sup>5</sup> |                                    | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> |
| Hex(962D2D) | Ratio: 2.62<br>Failed <sup>5</sup> | Ratio: 2.26<br>Failed <sup>5</sup> | Ratio: 1.94<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> |                                    | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |
| Hex(961E1E) | Ratio: 2.84<br>Failed <sup>5</sup> | Ratio: 2.44<br>Failed <sup>5</sup> | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> |                                    | Ratio: 1.05<br>Failed <sup>5</sup> |
| Hex(960F0F) | Ratio: 2.99<br>Failed <sup>5</sup> | Ratio: 2.58<br>Failed <sup>5</sup> | Ratio: 2.22<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup> | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> | Ratio: 1.14<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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