

# Converting Colors - WCAG Matrix

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

Hex(489DF6) Hex(61AAF6) Hex(79B6F6) Hex(92C3F6) Hex(AACFF6) Hex(C3DCF6) Hex(DCE8F6) Hex(F4F5F6) Hex(FFFFFF6)

|              | Hex(489DF6)                        | Hex(61AAF6)                        | Hex(79B6F6)                        | Hex(92C3F6)                        | Hex(AACFF6)                        | Hex(C3DCF6)                        | Hex(DCE8F6)                        | Hex(F4F5F6)                        | Hex(FFFFFF6)                       |
|--------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Hex(489DF6)  |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 2.00<br>Failed <sup>5</sup> | Ratio: 2.28<br>Failed <sup>5</sup> | Ratio: 2.59<br>Failed <sup>5</sup> | Ratio: 2.81<br>Failed <sup>5</sup> |
| Hex(61AAF6)  | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.73<br>Failed <sup>5</sup> | Ratio: 1.97<br>Failed <sup>5</sup> | Ratio: 2.24<br>Failed <sup>5</sup> | Ratio: 2.43<br>Failed <sup>5</sup> |
| Hex(79B6F6)  | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.72<br>Failed <sup>5</sup> | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 2.12<br>Failed <sup>5</sup> |
| Hex(92C3F6)  | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup> |
| Hex(AACFF6)  | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup> |
| Hex(C3DCF6)  | Ratio: 2.00<br>Failed <sup>5</sup> | Ratio: 1.73<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> |
| Hex(DCE8F6)  | Ratio: 2.28<br>Failed <sup>5</sup> | Ratio: 1.97<br>Failed <sup>5</sup> | Ratio: 1.72<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> |
| Hex(F4F5F6)  | Ratio: 2.59<br>Failed <sup>5</sup> | Ratio: 2.24<br>Failed <sup>5</sup> | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.09<br>Failed <sup>5</sup> |
| Hex(FFFFFF6) | Ratio: 2.81<br>Failed <sup>5</sup> | Ratio: 2.43<br>Failed <sup>5</sup> | Ratio: 2.12<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.23<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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