

# Converting Colors - WCAG Matrix

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

|             | Hex(0F78F0)                         | Hex(2785F0)                         | Hex(3F92F0)                        | Hex(579EF0)                        | Hex(6FABF0)                        | Hex(87B8F0)                        | Hex(9FC5F0)                        | Hex(B7D2F0)                        | Hex(CFDEF0)                         | Hex(E7EBF0)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(0F78F0) |                                     | Ratio: 1.15<br>Failed <sup>5</sup>  | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 2.04<br>Failed <sup>5</sup> | Ratio: 2.36<br>Failed <sup>5</sup> | Ratio: 2.72<br>Failed <sup>5</sup> | Ratio: 3.09<br>AA 18pt <sup>2</sup> | Ratio: 3.53<br>AA 18pt <sup>2</sup> |
| Hex(2785F0) | Ratio: 1.15<br>Failed <sup>5</sup>  |                                     | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.06<br>Failed <sup>5</sup> | Ratio: 2.37<br>Failed <sup>5</sup> | Ratio: 2.69<br>Failed <sup>5</sup>  | Ratio: 3.08<br>AA 18pt <sup>2</sup> |
| Hex(3F92F0) | Ratio: 1.33<br>Failed <sup>5</sup>  | Ratio: 1.15<br>Failed <sup>5</sup>  |                                    | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 2.33<br>Failed <sup>5</sup>  | Ratio: 2.67<br>Failed <sup>5</sup>  |
| Hex(579EF0) | Ratio: 1.52<br>Failed <sup>5</sup>  | Ratio: 1.33<br>Failed <sup>5</sup>  | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.79<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup>  | Ratio: 2.32<br>Failed <sup>5</sup>  |
| Hex(6FABF0) | Ratio: 1.76<br>Failed <sup>5</sup>  | Ratio: 1.54<br>Failed <sup>5</sup>  | Ratio: 1.33<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: 2.00<br>Failed <sup>5</sup>  |
| Hex(87B8F0) | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup>  | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.34<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: 1.51<br>Failed <sup>5</sup>  | Ratio: 1.73<br>Failed <sup>5</sup>  |
| Hex(9FC5F0) | Ratio: 2.36<br>Failed <sup>5</sup>  | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 1.55<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: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.50<br>Failed <sup>5</sup>  |
| Hex(B7D2F0) | Ratio: 2.72<br>Failed <sup>5</sup>  | Ratio: 2.37<br>Failed <sup>5</sup>  | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 1.79<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: 1.14<br>Failed <sup>5</sup>  | Ratio: 1.30<br>Failed <sup>5</sup>  |
| Hex(CFDEF0) | Ratio: 3.09<br>AA 18pt <sup>2</sup> | Ratio: 2.69<br>Failed <sup>5</sup>  | Ratio: 2.33<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                     | Ratio: 1.14<br>Failed <sup>5</sup>  |
| Hex(E7EBF0) | Ratio: 3.53<br>AA 18pt <sup>2</sup> | Ratio: 3.08<br>AA 18pt <sup>2</sup> | Ratio: 2.67<br>Failed <sup>5</sup> | Ratio: 2.32<br>Failed <sup>5</sup> | Ratio: 2.00<br>Failed <sup>5</sup> | Ratio: 1.73<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.30<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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