

# Converting Colors - WCAG Matrix

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

|             | Hex(0056C6)                         | Hex(003FAA)                        | Hex(002B8F)                        | Hex(001875)                        | Hex(00005B)                        | Hex(000743)                        | Hex(00032C)                         | Hex(000116)                         | Hex(000000)                         |
|-------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(0056C6) |                                     | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 2.27<br>Failed <sup>5</sup> | Ratio: 2.73<br>Failed <sup>5</sup> | Ratio: 2.83<br>Failed <sup>5</sup> | Ratio: 3.00<br>AA 18pt <sup>2</sup> | Ratio: 3.10<br>AA 18pt <sup>2</sup> | Ratio: 3.15<br>AA 18pt <sup>2</sup> |
| Hex(003FAA) | Ratio: 1.37<br>Failed <sup>5</sup>  |                                    | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 2.06<br>Failed <sup>5</sup> | Ratio: 2.18<br>Failed <sup>5</sup>  | Ratio: 2.26<br>Failed <sup>5</sup>  | Ratio: 2.29<br>Failed <sup>5</sup>  |
| Hex(002B8F) | Ratio: 1.81<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup> |                                    | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.57<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup>  | Ratio: 1.71<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup>  |
| Hex(001875) | Ratio: 2.27<br>Failed <sup>5</sup>  | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup> |                                    | Ratio: 1.21<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.39<br>Failed <sup>5</sup>  |
| Hex(00005B) | Ratio: 2.73<br>Failed <sup>5</sup>  | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.21<br>Failed <sup>5</sup> |                                    | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup>  | Ratio: 1.13<br>Failed <sup>5</sup>  | Ratio: 1.15<br>Failed <sup>5</sup>  |
| Hex(000743) | Ratio: 2.83<br>Failed <sup>5</sup>  | Ratio: 2.06<br>Failed <sup>5</sup> | Ratio: 1.57<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> |                                    | Ratio: 1.06<br>Failed <sup>5</sup>  | Ratio: 1.09<br>Failed <sup>5</sup>  | Ratio: 1.11<br>Failed <sup>5</sup>  |
| Hex(00032C) | Ratio: 3.00<br>AA 18pt <sup>2</sup> | Ratio: 2.18<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> |                                     | Ratio: 1.03<br>Failed <sup>5</sup>  | Ratio: 1.05<br>Failed <sup>5</sup>  |
| Hex(000116) | Ratio: 3.10<br>AA 18pt <sup>2</sup> | Ratio: 2.26<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.13<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup>  |                                     | Ratio: 1.02<br>Failed <sup>5</sup>  |
| Hex(000000) | Ratio: 3.15<br>AA 18pt <sup>2</sup> | Ratio: 2.29<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup>  | Ratio: 1.02<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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