

# Converting Colors - WCAG Matrix

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

|             | Hex(007BD2)                                             | Hex(0062B6)                         | Hex(004B9B)                        | Hex(003580)                        | Hex(002167)                         | Hex(00084E)                         | Hex(000536)                         | Hex(000220)                                             | Hex(000004)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(007BD2) |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>  | Ratio: 1.92<br>Failed <sup>5</sup> | Ratio: 2.62<br>Failed <sup>5</sup> | Ratio: 3.37<br>AA 18pt <sup>2</sup> | Ratio: 4.16<br>AA 18pt <sup>2</sup> | Ratio: 4.43<br>AA 18pt <sup>2</sup> | Ratio: 4.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.76<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.76<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(0062B6) | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.88<br>Failed <sup>5</sup> | Ratio: 2.42<br>Failed <sup>5</sup>  | Ratio: 2.99<br>Failed <sup>5</sup>  | Ratio: 3.18<br>AA 18pt <sup>2</sup> | Ratio: 3.32<br>AA 18pt <sup>2</sup>                     | Ratio: 3.42<br>AA 18pt <sup>2</sup>                     | Ratio: 3.42<br>AA 18pt <sup>2</sup>                     |
| Hex(004B9B) | Ratio: 1.92<br>Failed <sup>5</sup>                      | Ratio: 1.38<br>Failed <sup>5</sup>  |                                    | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup>  | Ratio: 2.17<br>Failed <sup>5</sup>  | Ratio: 2.31<br>Failed <sup>5</sup>  | Ratio: 2.41<br>Failed <sup>5</sup>                      | Ratio: 2.48<br>Failed <sup>5</sup>                      | Ratio: 2.48<br>Failed <sup>5</sup>                      |
| Hex(003580) | Ratio: 2.62<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup> |                                    | Ratio: 1.29<br>Failed <sup>5</sup>  | Ratio: 1.59<br>Failed <sup>5</sup>  | Ratio: 1.69<br>Failed <sup>5</sup>  | Ratio: 1.77<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      |
| Hex(002167) | Ratio: 3.37<br>AA 18pt <sup>2</sup>                     | Ratio: 2.42<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> |                                     | Ratio: 1.23<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |
| Hex(00084E) | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 2.99<br>Failed <sup>5</sup>  | Ratio: 2.17<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup>  |                                     | Ratio: 1.06<br>Failed <sup>5</sup>  | Ratio: 1.11<br>Failed <sup>5</sup>                      | Ratio: 1.14<br>Failed <sup>5</sup>                      | Ratio: 1.14<br>Failed <sup>5</sup>                      |
| Hex(000536) | Ratio: 4.43<br>AA 18pt <sup>2</sup>                     | Ratio: 3.18<br>AA 18pt <sup>2</sup> | Ratio: 2.31<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.06<br>Failed <sup>5</sup>  |                                     | Ratio: 1.04<br>Failed <sup>5</sup>                      | Ratio: 1.07<br>Failed <sup>5</sup>                      | Ratio: 1.07<br>Failed <sup>5</sup>                      |
| Hex(000220) | Ratio: 4.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.32<br>AA 18pt <sup>2</sup> | Ratio: 2.41<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.11<br>Failed <sup>5</sup>  | Ratio: 1.04<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.03<br>Failed <sup>5</sup>                      | Ratio: 1.03<br>Failed <sup>5</sup>                      |
| Hex(000004) | Ratio: 4.76<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.42<br>AA 18pt <sup>2</sup> | Ratio: 2.48<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.14<br>Failed <sup>5</sup>  | Ratio: 1.07<br>Failed <sup>5</sup>  | Ratio: 1.03<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.00<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 4.76<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.42<br>AA 18pt <sup>2</sup> | Ratio: 2.48<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.14<br>Failed <sup>5</sup>  | Ratio: 1.07<br>Failed <sup>5</sup>  | Ratio: 1.03<br>Failed <sup>5</sup>                      | Ratio: 1.00<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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