

# Converting Colors - WCAG Matrix

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

|             | Hex(DB8651)                                             | Hex(BD6C39)                                             | Hex(A05321)                         | Hex(833B08)                        | Hex(672400)                         | Hex(4A0C00)                                             | Hex(300000)                                             | Hex(050000)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(DB8651) |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 2.91<br>Failed <sup>5</sup> | Ratio: 4.12<br>AA 18pt <sup>2</sup> | Ratio: 5.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.49<br>Passed <sup>6</sup>                      | Ratio: 7.54<br>Passed <sup>6</sup>                      |
| Hex(BD6C39) | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup> | Ratio: 2.93<br>Failed <sup>5</sup>  | Ratio: 3.99<br>AA 18pt <sup>2</sup>                     | Ratio: 4.77<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.33<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.37<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(A05321) | Ratio: 2.01<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup>  | Ratio: 2.79<br>Failed <sup>5</sup>                      | Ratio: 3.34<br>AA 18pt <sup>2</sup>                     | Ratio: 3.73<br>AA 18pt <sup>2</sup>                     | Ratio: 3.75<br>AA 18pt <sup>2</sup>                     |
| Hex(833B08) | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                    | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.93<br>Failed <sup>5</sup>                      | Ratio: 2.30<br>Failed <sup>5</sup>                      | Ratio: 2.58<br>Failed <sup>5</sup>                      | Ratio: 2.59<br>Failed <sup>5</sup>                      |
| Hex(672400) | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 2.93<br>Failed <sup>5</sup>                      | Ratio: 2.05<br>Failed <sup>5</sup>  | Ratio: 1.42<br>Failed <sup>5</sup> |                                     | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.62<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 1.83<br>Failed <sup>5</sup>                      |
| Hex(4A0C00) | Ratio: 5.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.99<br>AA 18pt <sup>2</sup>                     | Ratio: 2.79<br>Failed <sup>5</sup>  | Ratio: 1.93<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.19<br>Failed <sup>5</sup>                      | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.34<br>Failed <sup>5</sup>                      |
| Hex(300000) | Ratio: 6.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.77<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.34<br>AA 18pt <sup>2</sup> | Ratio: 2.30<br>Failed <sup>5</sup> | Ratio: 1.62<br>Failed <sup>5</sup>  | Ratio: 1.19<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.12<br>Failed <sup>5</sup>                      | Ratio: 1.13<br>Failed <sup>5</sup>                      |
| Hex(050000) | Ratio: 7.49<br>Passed <sup>6</sup>                      | Ratio: 5.33<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.73<br>AA 18pt <sup>2</sup> | Ratio: 2.58<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.12<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.01<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 7.54<br>Passed <sup>6</sup>                      | Ratio: 5.37<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.75<br>AA 18pt <sup>2</sup> | Ratio: 2.59<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.13<br>Failed <sup>5</sup>                      | Ratio: 1.01<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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