

# Converting Colors - WCAG Matrix

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

|             | Hex(C3976F)                                             | Hex(A77D56)                                             | Hex(8B643F)                         | Hex(714C28)                        | Hex(563512)                         | Hex(3E2000)                                             | Hex(250B00)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(C3976F) |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>  | Ratio: 2.88<br>Failed <sup>5</sup> | Ratio: 4.17<br>AA 18pt <sup>2</sup> | Ratio: 5.65<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.08<br>Passed <sup>6</sup>                      | Ratio: 7.98<br>Passed <sup>6</sup>                      |
| Hex(A77D56) | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.06<br>Failed <sup>5</sup> | Ratio: 2.98<br>Failed <sup>5</sup>  | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 5.07<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(8B643F) | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 3.54<br>AA 18pt <sup>2</sup>                     | Ratio: 3.99<br>AA 18pt <sup>2</sup>                     |
| Hex(714C28) | Ratio: 2.88<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>  |                                    | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 2.46<br>Failed <sup>5</sup>                      | Ratio: 2.77<br>Failed <sup>5</sup>                      |
| Hex(563512) | Ratio: 4.17<br>AA 18pt <sup>2</sup>                     | Ratio: 2.98<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 1.45<br>Failed <sup>5</sup> |                                     | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.70<br>Failed <sup>5</sup>                      | Ratio: 1.91<br>Failed <sup>5</sup>                      |
| Hex(3E2000) | Ratio: 5.65<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 2.83<br>Failed <sup>5</sup>  | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.25<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |
| Hex(250B00) | Ratio: 7.08<br>Passed <sup>6</sup>                      | Ratio: 5.07<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.54<br>AA 18pt <sup>2</sup> | Ratio: 2.46<br>Failed <sup>5</sup> | Ratio: 1.70<br>Failed <sup>5</sup>  | Ratio: 1.25<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.13<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 7.98<br>Passed <sup>6</sup>                      | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.99<br>AA 18pt <sup>2</sup> | Ratio: 2.77<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 1.13<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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