

# Converting Colors - WCAG Matrix

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

|             | Hex(736426)                                             | Hex(8E7C3E)                         | Hex(A99656)                        | Hex(C5B16F)                        | Hex(E2CC89)                         | Hex(FFE8A4)                                             | Hex(FFFFBF)                                             | Hex(FFFDB)                                              | Hex(FFFFF8)                                             | Hex(FFFFFF)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(736426) |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.01<br>Failed <sup>5</sup> | Ratio: 2.76<br>Failed <sup>5</sup> | Ratio: 3.70<br>AA 18pt <sup>2</sup> | Ratio: 4.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.75<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.87<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(8E7C3E) | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.41<br>Failed <sup>5</sup> | Ratio: 1.94<br>Failed <sup>5</sup> | Ratio: 2.59<br>Failed <sup>5</sup>  | Ratio: 3.40<br>AA 18pt <sup>2</sup>                     | Ratio: 3.98<br>AA 18pt <sup>2</sup>                     | Ratio: 4.03<br>AA 18pt <sup>2</sup>                     | Ratio: 4.10<br>AA 18pt <sup>2</sup>                     | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     |
| Hex(A99656) | Ratio: 2.01<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>  |                                    | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup>  | Ratio: 2.41<br>Failed <sup>5</sup>                      | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 2.86<br>Failed <sup>5</sup>                      | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 2.92<br>Failed <sup>5</sup>                      |
| Hex(C5B16F) | Ratio: 2.76<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>  | Ratio: 1.38<br>Failed <sup>5</sup> |                                    | Ratio: 1.34<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 2.11<br>Failed <sup>5</sup>                      | Ratio: 2.12<br>Failed <sup>5</sup>                      |
| Hex(E2CC89) | Ratio: 3.70<br>AA 18pt <sup>2</sup>                     | Ratio: 2.59<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> |                                     | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.53<br>Failed <sup>5</sup>                      | Ratio: 1.56<br>Failed <sup>5</sup>                      | Ratio: 1.58<br>Failed <sup>5</sup>                      | Ratio: 1.59<br>Failed <sup>5</sup>                      |
| Hex(FFE8A4) | Ratio: 4.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.40<br>AA 18pt <sup>2</sup> | Ratio: 2.41<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.17<br>Failed <sup>5</sup>                      | Ratio: 1.19<br>Failed <sup>5</sup>                      | Ratio: 1.21<br>Failed <sup>5</sup>                      | Ratio: 1.21<br>Failed <sup>5</sup>                      |
| Hex(FFFFBF) | Ratio: 5.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.98<br>AA 18pt <sup>2</sup> | Ratio: 2.83<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup>  | Ratio: 1.17<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.01<br>Failed <sup>5</sup>                      | Ratio: 1.03<br>Failed <sup>5</sup>                      | Ratio: 1.03<br>Failed <sup>5</sup>                      |
| Hex(FFFDB)  | Ratio: 5.75<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.03<br>AA 18pt <sup>2</sup> | Ratio: 2.86<br>Failed <sup>5</sup> | Ratio: 2.08<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup>  | Ratio: 1.19<br>Failed <sup>5</sup>                      | Ratio: 1.01<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.02<br>Failed <sup>5</sup>                      | Ratio: 1.02<br>Failed <sup>5</sup>                      |
| Hex(FFFFF8) | Ratio: 5.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.10<br>AA 18pt <sup>2</sup> | Ratio: 2.91<br>Failed <sup>5</sup> | Ratio: 2.11<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup>  | Ratio: 1.21<br>Failed <sup>5</sup>                      | Ratio: 1.03<br>Failed <sup>5</sup>                      | Ratio: 1.02<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.00<br>Failed <sup>5</sup>                      |
| Hex(FFFFFF) | Ratio: 5.87<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.12<br>AA 18pt <sup>2</sup> | Ratio: 2.92<br>Failed <sup>5</sup> | Ratio: 2.12<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup>  | Ratio: 1.21<br>Failed <sup>5</sup>                      | Ratio: 1.03<br>Failed <sup>5</sup>                      | Ratio: 1.02<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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