

# Converting Colors - WCAG Matrix

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

|             | Hex(FFF49B)                                             | Hex(E2D880)                                             | Hex(C5BC66)                                             | Hex(A9A14D)                                             | Hex(8D8734)                                             | Hex(726E1A)                                             | Hex(585600)                                             | Hex(3F3E00)                                             | Hex(262900)                                             | Hex(071500)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(FFF49B) |                                                         | Ratio: 1.30<br>Failed <sup>5</sup>                      | Ratio: 1.73<br>Failed <sup>5</sup>                      | Ratio: 2.37<br>Failed <sup>5</sup>                      | Ratio: 3.30<br>AA 18pt <sup>2</sup>                     | Ratio: 4.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.80<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 9.82<br>Passed <sup>6</sup>                      | Ratio: 13.34<br>Passed <sup>6</sup>                     | Ratio: 16.72<br>Passed <sup>6</sup>                     |
| Hex(E2D880) | Ratio: 1.30<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 2.54<br>Failed <sup>5</sup>                      | Ratio: 3.63<br>AA 18pt <sup>2</sup>                     | Ratio: 5.23<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.56<br>Passed <sup>6</sup>                      | Ratio: 10.27<br>Passed <sup>6</sup>                     | Ratio: 12.87<br>Passed <sup>6</sup>                     |
| Hex(C5BC66) | Ratio: 1.73<br>Failed <sup>5</sup>                      | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.91<br>Failed <sup>5</sup>                      | Ratio: 2.72<br>Failed <sup>5</sup>                      | Ratio: 3.92<br>AA 18pt <sup>2</sup>                     | Ratio: 5.66<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.69<br>Passed <sup>6</sup>                      | Ratio: 9.64<br>Passed <sup>6</sup>                      |
| Hex(A9A14D) | Ratio: 2.37<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 2.87<br>Failed <sup>5</sup>                      | Ratio: 4.15<br>AA 18pt <sup>2</sup>                     | Ratio: 5.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.07<br>Passed <sup>6</sup>                      |
| Hex(8D8734) | Ratio: 3.30<br>AA 18pt <sup>2</sup>                     | Ratio: 2.54<br>Failed <sup>5</sup>                      | Ratio: 1.91<br>Failed <sup>5</sup>                      | 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: 2.97<br>Failed <sup>5</sup>                      | Ratio: 4.04<br>AA 18pt <sup>2</sup>                     | Ratio: 5.06<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(726E1A) | Ratio: 4.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.63<br>AA 18pt <sup>2</sup>                     | Ratio: 2.72<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 3.55<br>AA 18pt <sup>2</sup>                     |
| Hex(585600) | Ratio: 6.80<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.23<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.92<br>AA 18pt <sup>2</sup>                     | Ratio: 2.87<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 2.46<br>Failed <sup>5</sup>                      |
| Hex(3F3E00) | Ratio: 9.82<br>Passed <sup>6</sup>                      | Ratio: 7.56<br>Passed <sup>6</sup>                      | Ratio: 5.66<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.15<br>AA 18pt <sup>2</sup>                     | Ratio: 2.97<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.70<br>Failed <sup>5</sup>                      |
| Hex(262900) | Ratio: 13.34<br>Passed <sup>6</sup>                     | Ratio: 10.27<br>Passed <sup>6</sup>                     | Ratio: 7.69<br>Passed <sup>6</sup>                      | Ratio: 5.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.04<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>                      |
| Hex(071500) | Ratio: 16.72<br>Passed <sup>6</sup>                     | Ratio: 12.87<br>Passed <sup>6</sup>                     | Ratio: 9.64<br>Passed <sup>6</sup>                      | Ratio: 7.07<br>Passed <sup>6</sup>                      | Ratio: 5.06<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.55<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>                      |                                                         |

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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