

# Converting Colors - WCAG Matrix

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

|             | Hex(471C1C)                                             | Hex(613330)                                             | Hex(7A4A47)                                             | Hex(94615E)                                             | Hex(B07A78)                         | Hex(CC9491)                                             | Hex(EBB0AB)                                             | Hex(FFCC7)                                              | Hex(FFE8E3)                                             | Hex(FFFFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(471C1C) |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 2.85<br>Failed <sup>5</sup>                      | Ratio: 4.07<br>AA 18pt <sup>2</sup> | Ratio: 5.66<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.81<br>Passed <sup>6</sup>                      | Ratio: 10.14<br>Passed <sup>6</sup>                     | Ratio: 12.34<br>Passed <sup>6</sup>                     | Ratio: 14.47<br>Passed <sup>6</sup>                     |
| Hex(613330) | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 2.91<br>Failed <sup>5</sup>  | Ratio: 4.06<br>AA 18pt <sup>2</sup>                     | Ratio: 5.60<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.27<br>Passed <sup>6</sup>                      | Ratio: 8.84<br>Passed <sup>6</sup>                      | Ratio: 10.37<br>Passed <sup>6</sup>                     |
| Hex(7A4A47) | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 3.91<br>AA 18pt <sup>2</sup>                     | Ratio: 5.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.18<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.25<br>Passed <sup>6</sup>                      |
| Hex(94615E) | Ratio: 2.85<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 2.74<br>Failed <sup>5</sup>                      | Ratio: 3.56<br>AA 18pt <sup>2</sup>                     | Ratio: 4.33<br>AA 18pt <sup>2</sup>                     | Ratio: 5.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(B07A78) | Ratio: 4.07<br>AA 18pt <sup>2</sup>                     | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.92<br>Failed <sup>5</sup>                      | Ratio: 2.49<br>Failed <sup>5</sup>                      | Ratio: 3.03<br>AA 18pt <sup>2</sup>                     | Ratio: 3.56<br>AA 18pt <sup>2</sup>                     |
| Hex(CC9491) | Ratio: 5.66<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.06<br>AA 18pt <sup>2</sup>                     | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.79<br>Failed <sup>5</sup>                      | Ratio: 2.18<br>Failed <sup>5</sup>                      | Ratio: 2.56<br>Failed <sup>5</sup>                      |
| Hex(EBB0AB) | Ratio: 7.81<br>Passed <sup>6</sup>                      | Ratio: 5.60<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.91<br>AA 18pt <sup>2</sup>                     | Ratio: 2.74<br>Failed <sup>5</sup>                      | Ratio: 1.92<br>Failed <sup>5</sup>  | Ratio: 1.38<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.30<br>Failed <sup>5</sup>                      | Ratio: 1.58<br>Failed <sup>5</sup>                      | Ratio: 1.85<br>Failed <sup>5</sup>                      |
| Hex(FFCC7)  | Ratio: 10.14<br>Passed <sup>6</sup>                     | Ratio: 7.27<br>Passed <sup>6</sup>                      | Ratio: 5.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.56<br>AA 18pt <sup>2</sup>                     | Ratio: 2.49<br>Failed <sup>5</sup>  | Ratio: 1.79<br>Failed <sup>5</sup>                      | Ratio: 1.30<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.22<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |
| Hex(FFE8E3) | Ratio: 12.34<br>Passed <sup>6</sup>                     | Ratio: 8.84<br>Passed <sup>6</sup>                      | Ratio: 6.18<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.33<br>AA 18pt <sup>2</sup>                     | Ratio: 3.03<br>AA 18pt <sup>2</sup> | Ratio: 2.18<br>Failed <sup>5</sup>                      | Ratio: 1.58<br>Failed <sup>5</sup>                      | Ratio: 1.22<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.17<br>Failed <sup>5</sup>                      |
| Hex(FFFFFF) | Ratio: 14.47<br>Passed <sup>6</sup>                     | Ratio: 10.37<br>Passed <sup>6</sup>                     | Ratio: 7.25<br>Passed <sup>6</sup>                      | Ratio: 5.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.56<br>AA 18pt <sup>2</sup> | Ratio: 2.56<br>Failed <sup>5</sup>                      | Ratio: 1.85<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 1.17<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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