

# Converting Colors - WCAG Matrix

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

|             | Hex(FFFFFF)                                             | Hex(FFEFEF)                                             | Hex(E7D3D3)                                             | Hex(CBB7B7)                                             | Hex(AF9C9C)                                             | Hex(958282)                         | Hex(7B6969)                                             | Hex(625151)                                             | Hex(4A3A3A)                                             | Hex(332425)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(FFFFFF) |                                                         | Ratio: 1.11<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 1.91<br>Failed <sup>5</sup>                      | Ratio: 2.61<br>Failed <sup>5</sup>                      | Ratio: 3.62<br>AA 18pt <sup>2</sup> | Ratio: 5.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.46<br>Passed <sup>6</sup>                      | Ratio: 10.73<br>Passed <sup>6</sup>                     | Ratio: 14.79<br>Passed <sup>6</sup>                     |
| Hex(FFEFEF) | Ratio: 1.11<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 2.34<br>Failed <sup>5</sup>                      | Ratio: 3.25<br>AA 18pt <sup>2</sup> | Ratio: 4.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 9.63<br>Passed <sup>6</sup>                      | Ratio: 13.27<br>Passed <sup>6</sup>                     |
| Hex(E7D3D3) | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 1.29<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 2.53<br>Failed <sup>5</sup>  | Ratio: 3.60<br>AA 18pt <sup>2</sup>                     | Ratio: 5.21<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.49<br>Passed <sup>6</sup>                      | Ratio: 10.32<br>Passed <sup>6</sup>                     |
| Hex(CBB7B7) | Ratio: 1.91<br>Failed <sup>5</sup>                      | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>  | Ratio: 2.70<br>Failed <sup>5</sup>                      | Ratio: 3.91<br>AA 18pt <sup>2</sup>                     | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.75<br>Passed <sup>6</sup>                      |
| Hex(AF9C9C) | Ratio: 2.61<br>Failed <sup>5</sup>                      | Ratio: 2.34<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>  | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 2.86<br>Failed <sup>5</sup>                      | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 5.68<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(958282) | Ratio: 3.62<br>AA 18pt <sup>2</sup>                     | Ratio: 3.25<br>AA 18pt <sup>2</sup>                     | Ratio: 2.53<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 4.08<br>AA 18pt <sup>2</sup>                     |
| Hex(7B6969) | Ratio: 5.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.60<br>AA 18pt <sup>2</sup>                     | Ratio: 2.70<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 2.86<br>Failed <sup>5</sup>                      |
| Hex(625151) | Ratio: 7.46<br>Passed <sup>6</sup>                      | Ratio: 6.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.21<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.91<br>AA 18pt <sup>2</sup>                     | Ratio: 2.86<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: 1.98<br>Failed <sup>5</sup>                      |
| Hex(4A3A3A) | Ratio: 10.73<br>Passed <sup>6</sup>                     | Ratio: 9.63<br>Passed <sup>6</sup>                      | Ratio: 7.49<br>Passed <sup>6</sup>                      | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 2.96<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.38<br>Failed <sup>5</sup>                      |
| Hex(332425) | Ratio: 14.79<br>Passed <sup>6</sup>                     | Ratio: 13.27<br>Passed <sup>6</sup>                     | Ratio: 10.32<br>Passed <sup>6</sup>                     | Ratio: 7.75<br>Passed <sup>6</sup>                      | Ratio: 5.68<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.08<br>AA 18pt <sup>2</sup> | Ratio: 2.86<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 1.38<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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