

# Converting Colors - WCAG Matrix

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

|              | Hex(34382E)                                             | Hex(FFFFFF)                                             | Hex(62675C)                                             | Hex(7B8074)                         | Hex(959A8E)                         | Hex(B0B5A8)                                             | Hex(CBD0C4)                         | Hex(E7ECDF)                                             | Hex(FFFFFFC)                                            |
|--------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(34382E)  |                                                         | Ratio: 11.99<br>Passed <sup>6</sup>                     | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 2.96<br>Failed <sup>5</sup>  | Ratio: 4.16<br>AA 18pt <sup>2</sup> | Ratio: 5.72<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.63<br>Passed <sup>6</sup>  | Ratio: 9.97<br>Passed <sup>6</sup>                      | Ratio: 11.97<br>Passed <sup>6</sup>                     |
| Hex(FFFFFF)  | Ratio: 11.99<br>Passed <sup>6</sup>                     |                                                         | Ratio: 5.81<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.05<br>AA 18pt <sup>2</sup> | Ratio: 2.88<br>Failed <sup>5</sup>  | Ratio: 2.10<br>Failed <sup>5</sup>                      | Ratio: 1.57<br>Failed <sup>5</sup>  | Ratio: 1.20<br>Failed <sup>5</sup>                      | Ratio: 1.00<br>Failed <sup>5</sup>                      |
| Hex(62675C)  | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 5.81<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.77<br>Failed <sup>5</sup>                      | Ratio: 3.70<br>AA 18pt <sup>2</sup> | Ratio: 4.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.80<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(7B8074)  | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.93<br>Failed <sup>5</sup>                      | Ratio: 2.58<br>Failed <sup>5</sup>  | Ratio: 3.37<br>AA 18pt <sup>2</sup>                     | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     |
| Hex(959A8E)  | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 2.88<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>  |                                     | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.83<br>Failed <sup>5</sup>  | Ratio: 2.40<br>Failed <sup>5</sup>                      | Ratio: 2.88<br>Failed <sup>5</sup>                      |
| Hex(B0B5A8)  | Ratio: 5.72<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.10<br>Failed <sup>5</sup>                      | Ratio: 2.77<br>Failed <sup>5</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.33<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>                      |
| Hex(CBD0C4)  | Ratio: 7.63<br>Passed <sup>6</sup>                      | Ratio: 1.57<br>Failed <sup>5</sup>                      | Ratio: 3.70<br>AA 18pt <sup>2</sup>                     | Ratio: 2.58<br>Failed <sup>5</sup>  | Ratio: 1.83<br>Failed <sup>5</sup>  | Ratio: 1.33<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.57<br>Failed <sup>5</sup>                      |
| Hex(E7ECDF)  | Ratio: 9.97<br>Passed <sup>6</sup>                      | Ratio: 1.20<br>Failed <sup>5</sup>                      | Ratio: 4.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.37<br>AA 18pt <sup>2</sup> | Ratio: 2.40<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup>                      | Ratio: 1.31<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.20<br>Failed <sup>5</sup>                      |
| Hex(FFFFFFC) | Ratio: 11.97<br>Passed <sup>6</sup>                     | Ratio: 1.00<br>Failed <sup>5</sup>                      | Ratio: 5.80<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.05<br>AA 18pt <sup>2</sup> | Ratio: 2.88<br>Failed <sup>5</sup>  | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 1.57<br>Failed <sup>5</sup>  | Ratio: 1.20<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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