

# Converting Colors - WCAG Matrix

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

|             | Hex(301313)                                             | Hex(482827)                                             | Hex(603E3D)                                             | Hex(795654)                                             | Hex(946E6D)                         | Hex(AF8786)                                             | Hex(CBA2A0)                                             | Hex(E7BDBB)                                             | Hex(FFD9D7)                                             | Hex(FFF5F3)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(301313) |                                                         | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 2.66<br>Failed <sup>5</sup>                      | Ratio: 3.84<br>AA 18pt <sup>2</sup> | Ratio: 5.40<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.50<br>Passed <sup>6</sup>                      | Ratio: 10.09<br>Passed <sup>6</sup>                     | Ratio: 13.16<br>Passed <sup>6</sup>                     | Ratio: 15.96<br>Passed <sup>6</sup>                     |
| Hex(482827) | Ratio: 1.31<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 2.93<br>Failed <sup>5</sup>  | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 5.73<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.71<br>Passed <sup>6</sup>                      | Ratio: 10.05<br>Passed <sup>6</sup>                     | Ratio: 12.19<br>Passed <sup>6</sup>                     |
| Hex(603E3D) | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 4.09<br>AA 18pt <sup>2</sup>                     | Ratio: 5.50<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.17<br>Passed <sup>6</sup>                      | Ratio: 8.70<br>Passed <sup>6</sup>                      |
| Hex(795654) | Ratio: 2.66<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 3.79<br>AA 18pt <sup>2</sup>                     | Ratio: 4.94<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.99<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(946E6D) | Ratio: 3.84<br>AA 18pt <sup>2</sup>                     | Ratio: 2.93<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 2.63<br>Failed <sup>5</sup>                      | Ratio: 3.43<br>AA 18pt <sup>2</sup>                     | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     |
| Hex(AF8786) | Ratio: 5.40<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 2.44<br>Failed <sup>5</sup>                      | Ratio: 2.96<br>Failed <sup>5</sup>                      |
| Hex(CBA2A0) | Ratio: 7.50<br>Passed <sup>6</sup>                      | Ratio: 5.73<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.09<br>AA 18pt <sup>2</sup>                     | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>  | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 2.13<br>Failed <sup>5</sup>                      |
| Hex(E7BDBB) | Ratio: 10.09<br>Passed <sup>6</sup>                     | Ratio: 7.71<br>Passed <sup>6</sup>                      | Ratio: 5.50<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.79<br>AA 18pt <sup>2</sup>                     | Ratio: 2.63<br>Failed <sup>5</sup>  | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.30<br>Failed <sup>5</sup>                      | Ratio: 1.58<br>Failed <sup>5</sup>                      |
| Hex(FFD9D7) | Ratio: 13.16<br>Passed <sup>6</sup>                     | Ratio: 10.05<br>Passed <sup>6</sup>                     | Ratio: 7.17<br>Passed <sup>6</sup>                      | Ratio: 4.94<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.43<br>AA 18pt <sup>2</sup> | Ratio: 2.44<br>Failed <sup>5</sup>                      | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 1.30<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.21<br>Failed <sup>5</sup>                      |
| Hex(FFF5F3) | Ratio: 15.96<br>Passed <sup>6</sup>                     | Ratio: 12.19<br>Passed <sup>6</sup>                     | Ratio: 8.70<br>Passed <sup>5</sup>                      | Ratio: 5.99<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.16<br>AA 18pt <sup>2</sup> | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 2.13<br>Failed <sup>5</sup>                      | Ratio: 1.58<br>Failed <sup>5</sup>                      | Ratio: 1.21<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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