

# Converting Colors - WCAG Matrix

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

|             | Hex(D7D6D4)                                             | Hex(BBBAB8)                                             | Hex(A09F9D)                                             | Hex(868583)                                             | Hex(6D6C6A)                         | Hex(555452)                                             | Hex(3D3D3B)                                             | Hex(282725)                                             | Hex(131211)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(D7D6D4) |                                                         | 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: 3.61<br>AA 18pt <sup>2</sup> | Ratio: 5.21<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.50<br>Passed <sup>6</sup>                      | Ratio: 10.27<br>Passed <sup>6</sup>                     | Ratio: 12.88<br>Passed <sup>6</sup>                     | Ratio: 14.46<br>Passed <sup>6</sup>                     |
| Hex(BBBAB8) | Ratio: 1.34<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: 3.90<br>AA 18pt <sup>2</sup>                     | Ratio: 5.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.70<br>Passed <sup>6</sup>                      | Ratio: 9.65<br>Passed <sup>6</sup>                      | Ratio: 10.83<br>Passed <sup>6</sup>                     |
| Hex(A09F9D) | 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: 5.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.07<br>Passed <sup>6</sup>                      | Ratio: 7.94<br>Passed <sup>6</sup>                      |
| Hex(868583) | Ratio: 2.54<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: 2.05<br>Failed <sup>5</sup>                      | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 5.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(6D6C6A) | Ratio: 3.61<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: 2.84<br>Failed <sup>5</sup>                      | Ratio: 3.57<br>AA 18pt <sup>2</sup>                     | Ratio: 4.00<br>AA 18pt <sup>2</sup>                     |
| Hex(555452) | Ratio: 5.21<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.90<br>AA 18pt <sup>2</sup>                     | Ratio: 2.86<br>Failed <sup>5</sup>                      | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 2.47<br>Failed <sup>5</sup>                      | Ratio: 2.78<br>Failed <sup>5</sup>                      |
| Hex(3D3D3B) | Ratio: 7.50<br>Passed <sup>6</sup>                      | Ratio: 5.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>  | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.72<br>Failed <sup>5</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>                      |
| Hex(282725) | Ratio: 10.27<br>Passed <sup>6</sup>                     | Ratio: 7.70<br>Passed <sup>6</sup>                      | Ratio: 5.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 2.84<br>Failed <sup>5</sup>  | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.25<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |
| Hex(131211) | Ratio: 12.88<br>Passed <sup>6</sup>                     | Ratio: 9.65<br>Passed <sup>6</sup>                      | Ratio: 7.07<br>Passed <sup>6</sup>                      | Ratio: 5.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.57<br>AA 18pt <sup>2</sup> | Ratio: 2.47<br>Failed <sup>5</sup>                      | Ratio: 1.72<br>Failed <sup>5</sup>                      | Ratio: 1.25<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.12<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 14.46<br>Passed <sup>6</sup>                     | Ratio: 10.83<br>Passed <sup>6</sup>                     | Ratio: 7.94<br>Passed <sup>6</sup>                      | Ratio: 5.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.00<br>AA 18pt <sup>2</sup> | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 1.12<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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