

# Converting Colors - WCAG Matrix

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

|             | Hex(DACED1)                                             | Hex(BEB3B5)                                             | Hex(A3989B)                                             | Hex(897E81)                                             | Hex(6F6568)                         | Hex(574D50)                                                  | Hex(403639)                                             | Hex(2A2123)                                             | Hex(160A0E)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|--------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(DACED1) |                                                         | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.83<br>Failed <sup>5</sup>                      | Ratio: 2.56<br>Failed <sup>5</sup>                      | Ratio: 3.67<br>AA 18pt <sup>2</sup> | Ratio: 5.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup>      | Ratio: 7.61<br>Passed <sup>6</sup>                      | Ratio: 10.24<br>Passed <sup>6</sup>                     | Ratio: 12.67<br>Passed <sup>6</sup>                     | Ratio: 13.73<br>Passed <sup>6</sup>                     |
| Hex(BEB3B5) | Ratio: 1.33<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.92<br>Failed <sup>5</sup>                      | Ratio: 2.76<br>Failed <sup>5</sup>  | Ratio: 3.99<br>AA 18pt <sup>2</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.69<br>Passed <sup>6</sup>                      | Ratio: 9.51<br>Passed <sup>6</sup>                      | Ratio: 10.30<br>Passed <sup>6</sup>                     |
| Hex(A3989B) | Ratio: 1.83<br>Failed <sup>5</sup>                      | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 2.91<br>Failed <sup>5</sup>                           | Ratio: 4.17<br>AA 18pt <sup>2</sup>                     | Ratio: 5.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.94<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.52<br>Passed <sup>6</sup>                      |
| Hex(897E81) | Ratio: 2.56<br>Failed <sup>5</sup>                      | Ratio: 1.92<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup>                           | Ratio: 2.97<br>Failed <sup>5</sup>                      | Ratio: 4.00<br>AA 18pt <sup>2</sup>                     | Ratio: 4.95<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.36<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(6F6568) | Ratio: 3.67<br>AA 18pt <sup>2</sup>                     | Ratio: 2.76<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup>                           | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 2.79<br>Failed <sup>5</sup>                      | Ratio: 3.45<br>AA 18pt <sup>2</sup>                     | Ratio: 3.74<br>AA 18pt <sup>2</sup>                     |
| Hex(574D50) | Ratio: 5.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.99<br>AA 18pt <sup>2</sup>                     | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                                              | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>                      | Ratio: 2.38<br>Failed <sup>5</sup>                      | Ratio: 2.58<br>Failed <sup>5</sup>                      |
| Hex(403639) | Ratio: 7.61<br>Passed <sup>6</sup>                      | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.17<br>AA 18pt <sup>2</sup>                     | Ratio: 2.97<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 1.43<br>Failed <sup>5</sup>                           |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.67<br>Failed <sup>5</sup>                      | Ratio: 1.80<br>Failed <sup>5</sup>                      |
| Hex(2A2123) | Ratio: 10.24<br>Passed <sup>6</sup>                     | Ratio: 7.69<br>Passed <sup>6</sup>                      | Ratio: 5.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.00<br>AA 18pt <sup>2</sup>                     | Ratio: 2.79<br>Failed <sup>5</sup>  | Ratio: 1.93<br>Failed <sup>5</sup>                           | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.24<br>Failed <sup>5</sup>                      | Ratio: 1.34<br>Failed <sup>5</sup>                      |
| Hex(160A0E) | Ratio: 12.67<br>Passed <sup>6</sup>                     | Ratio: 9.51<br>Passed <sup>6</sup>                      | Ratio: 6.94<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.95<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.45<br>AA 18pt <sup>2</sup> | Ratio: 2.38<br>Failed <sup>5</sup>                           | Ratio: 1.67<br>Failed <sup>5</sup>                      | Ratio: 1.24<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.08<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 13.73<br>Passed <sup>6</sup>                     | Ratio: 10.30<br>Passed <sup>6</sup>                     | Ratio: 7.52<br>Passed <sup>6</sup>                      | Ratio: 5.36<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.74<br>AA 18pt <sup>2</sup> | Ratio: 2.58<br>Failed <sup>5</sup>                           | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.08<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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