

# Converting Colors - WCAG Matrix

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

|             | Hex(2E2A2A)                                             | Hex(FFFFFF)                                             | Hex(5C5757)                                             | Hex(756F6F)                                             | Hex(8E8989)                         | Hex(A9A3A3)                                             | Hex(C4BEBE)                         | Hex(E0DADA)                                             | Hex(FCF6F6)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(2E2A2A) |                                                         | Ratio: 14.18<br>Passed <sup>6</sup>                     | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 2.88<br>Failed <sup>5</sup>                      | Ratio: 4.11<br>AA 18pt <sup>2</sup> | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.74<br>Passed <sup>6</sup>  | Ratio: 10.27<br>Passed <sup>6</sup>                     | Ratio: 13.27<br>Passed <sup>6</sup>                     |
| Hex(FFFFFF) | Ratio: 14.18<br>Passed <sup>6</sup>                     |                                                         | Ratio: 7.10<br>Passed <sup>6</sup>                      | Ratio: 4.93<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.45<br>AA 18pt <sup>2</sup> | Ratio: 2.48<br>Failed <sup>5</sup>                      | Ratio: 1.83<br>Failed <sup>5</sup>  | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.07<br>Failed <sup>5</sup>                      |
| Hex(5C5757) | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 7.10<br>Passed <sup>6</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 2.86<br>Failed <sup>5</sup>                      | Ratio: 3.88<br>AA 18pt <sup>2</sup> | Ratio: 5.15<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.65<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(756F6F) | Ratio: 2.88<br>Failed <sup>5</sup>                      | Ratio: 4.93<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 2.69<br>Failed <sup>5</sup>  | Ratio: 3.57<br>AA 18pt <sup>2</sup>                     | Ratio: 4.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(8E8989) | Ratio: 4.11<br>AA 18pt <sup>2</sup>                     | Ratio: 3.45<br>AA 18pt <sup>2</sup>                     | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 2.50<br>Failed <sup>5</sup>                      | Ratio: 3.23<br>AA 18pt <sup>2</sup>                     |
| Hex(A9A3A3) | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.48<br>Failed <sup>5</sup>                      | Ratio: 2.86<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>  | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 2.32<br>Failed <sup>5</sup>                      |
| Hex(C4BEBE) | Ratio: 7.74<br>Passed <sup>6</sup>                      | Ratio: 1.83<br>Failed <sup>5</sup>                      | Ratio: 3.88<br>AA 18pt <sup>2</sup>                     | Ratio: 2.69<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.72<br>Failed <sup>5</sup>                      |
| Hex(E0DADA) | Ratio: 10.27<br>Passed <sup>6</sup>                     | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 5.15<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.57<br>AA 18pt <sup>2</sup>                     | Ratio: 2.50<br>Failed <sup>5</sup>  | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.29<br>Failed <sup>5</sup>                      |
| Hex(FCF6F6) | Ratio: 13.27<br>Passed <sup>6</sup>                     | Ratio: 1.07<br>Failed <sup>5</sup>                      | Ratio: 6.65<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.23<br>AA 18pt <sup>2</sup> | Ratio: 2.32<br>Failed <sup>5</sup>                      | Ratio: 1.72<br>Failed <sup>5</sup>  | Ratio: 1.29<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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