

# Converting Colors - WCAG Matrix

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

|             | Hex(2E2E36)                                             | Hex(FFFFFF)                                             | Hex(5B5C64)                                             | Hex(74747D)                                             | Hex(8D8E97)                         | Hex(A8A8B2)                                             | Hex(C3C3CD)                         | Hex(DFDFE9)                                             | Hex(FCFCFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(2E2E36) |                                                         | Ratio: 13.46<br>Passed <sup>6</sup>                     | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 4.13<br>AA 18pt <sup>2</sup> | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.70<br>Passed <sup>6</sup>  | Ratio: 10.17<br>Passed <sup>6</sup>                     | Ratio: 13.14<br>Passed <sup>6</sup>                     |
| Hex(FFFFFF) | Ratio: 13.46<br>Passed <sup>6</sup>                     |                                                         | Ratio: 6.65<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.26<br>AA 18pt <sup>2</sup> | Ratio: 2.36<br>Failed <sup>5</sup>                      | Ratio: 1.75<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.02<br>Failed <sup>5</sup>                      |
| Hex(5B5C64) | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 6.65<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 3.80<br>AA 18pt <sup>2</sup> | Ratio: 5.02<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.49<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(74747D) | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 4.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 2.65<br>Failed <sup>5</sup>  | Ratio: 3.50<br>AA 18pt <sup>2</sup>                     | Ratio: 4.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(8D8E97) | Ratio: 4.13<br>AA 18pt <sup>2</sup>                     | Ratio: 3.26<br>AA 18pt <sup>2</sup>                     | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.86<br>Failed <sup>5</sup>  | Ratio: 2.46<br>Failed <sup>5</sup>                      | Ratio: 3.18<br>AA 18pt <sup>2</sup>                     |
| Hex(A8A8B2) | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.36<br>Failed <sup>5</sup>                      | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.38<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup>                      | Ratio: 2.30<br>Failed <sup>5</sup>                      |
| Hex(C3C3CD) | Ratio: 7.70<br>Passed <sup>6</sup>                      | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 3.80<br>AA 18pt <sup>2</sup>                     | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 1.86<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.71<br>Failed <sup>5</sup>                      |
| Hex(DFDFE9) | Ratio: 10.17<br>Passed <sup>6</sup>                     | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 5.02<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.50<br>AA 18pt <sup>2</sup>                     | Ratio: 2.46<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.29<br>Failed <sup>5</sup>                      |
| Hex(FCFCFF) | Ratio: 13.14<br>Passed <sup>6</sup>                     | Ratio: 1.02<br>Failed <sup>5</sup>                      | Ratio: 6.49<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.18<br>AA 18pt <sup>2</sup> | Ratio: 2.30<br>Failed <sup>5</sup>                      | Ratio: 1.71<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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