

# Converting Colors - WCAG Matrix

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

|             | Hex(222923)                                             | Hex(FFFFFF)                                             | Hex(4E564F)                                             | Hex(666E67)                                             | Hex(7F8880)                         | Hex(99A29A)                                             | Hex(B4BDB5)                         | Hex(CFD9D0)                                             | Hex(ECF5EC)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(222923) |                                                         | Ratio: 14.90<br>Passed <sup>6</sup>                     | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 4.07<br>AA 18pt <sup>2</sup> | Ratio: 5.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.72<br>Passed <sup>6</sup>  | Ratio: 10.28<br>Passed <sup>6</sup>                     | Ratio: 13.37<br>Passed <sup>6</sup>                     |
| Hex(FFFFFF) | Ratio: 14.90<br>Passed <sup>6</sup>                     |                                                         | Ratio: 7.59<br>Passed <sup>6</sup>                      | Ratio: 5.26<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.66<br>AA 18pt <sup>2</sup> | Ratio: 2.63<br>Failed <sup>5</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>  | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 1.11<br>Failed <sup>5</sup>                      |
| Hex(4E564F) | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 7.59<br>Passed <sup>6</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 2.89<br>Failed <sup>5</sup>                      | Ratio: 3.93<br>AA 18pt <sup>2</sup> | Ratio: 5.23<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.81<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(666E67) | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 5.26<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 2.73<br>Failed <sup>5</sup>  | Ratio: 3.63<br>AA 18pt <sup>2</sup>                     | Ratio: 4.72<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(7F8880) | Ratio: 4.07<br>AA 18pt <sup>2</sup>                     | Ratio: 3.66<br>AA 18pt <sup>2</sup>                     | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>  | Ratio: 2.53<br>Failed <sup>5</sup>                      | Ratio: 3.28<br>AA 18pt <sup>2</sup>                     |
| Hex(99A29A) | Ratio: 5.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.63<br>Failed <sup>5</sup>                      | Ratio: 2.89<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.81<br>Failed <sup>5</sup>                      | Ratio: 2.36<br>Failed <sup>5</sup>                      |
| Hex(B4BDB5) | Ratio: 7.72<br>Passed <sup>6</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>                      | Ratio: 3.93<br>AA 18pt <sup>2</sup>                     | Ratio: 2.73<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.73<br>Failed <sup>5</sup>                      |
| Hex(CFD9D0) | Ratio: 10.28<br>Passed <sup>6</sup>                     | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 5.23<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.63<br>AA 18pt <sup>2</sup>                     | Ratio: 2.53<br>Failed <sup>5</sup>  | Ratio: 1.81<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.30<br>Failed <sup>5</sup>                      |
| Hex(ECF5EC) | Ratio: 13.37<br>Passed <sup>6</sup>                     | Ratio: 1.11<br>Failed <sup>5</sup>                      | Ratio: 6.81<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.72<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.28<br>AA 18pt <sup>2</sup> | Ratio: 2.36<br>Failed <sup>5</sup>                      | Ratio: 1.73<br>Failed <sup>5</sup>  | Ratio: 1.30<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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