

# Converting Colors - WCAG Matrix

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

|             | Hex(2F303D)                                             | Hex(464654)                                             | Hex(5D5E6D)                                             | Hex(767786)                         | Hex(9090A0)                         | Hex(AAABBB)                                             | Hex(C5C6D7)                                             | Hex(E1E2F3)                                             | Hex(FEFFFF)                                             | Hex(FFFFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(2F303D) |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 4.15<br>AA 18pt <sup>2</sup> | Ratio: 5.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.72<br>Passed <sup>6</sup>                      | Ratio: 10.16<br>Passed <sup>6</sup>                     | Ratio: 13.01<br>Passed <sup>6</sup>                     | Ratio: 13.04<br>Passed <sup>6</sup>                     |
| Hex(464654) | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.10<br>Failed <sup>5</sup>  | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 4.09<br>AA 18pt <sup>2</sup>                     | Ratio: 5.49<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.23<br>Passed <sup>6</sup>                      | Ratio: 9.26<br>Passed <sup>6</sup>                      | Ratio: 9.27<br>Passed <sup>6</sup>                      |
| Hex(5D5E6D) | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 2.03<br>Failed <sup>5</sup>  | Ratio: 2.81<br>Failed <sup>5</sup>                      | Ratio: 3.78<br>AA 18pt <sup>2</sup>                     | Ratio: 4.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.38<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(767786) | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.10<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.95<br>Failed <sup>5</sup>                      | Ratio: 2.62<br>Failed <sup>5</sup>                      | Ratio: 3.44<br>AA 18pt <sup>2</sup>                     | Ratio: 4.41<br>AA 18pt <sup>2</sup>                     | Ratio: 4.42<br>AA 18pt <sup>2</sup>                     |
| Hex(9090A0) | Ratio: 4.15<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>  |                                     | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.86<br>Failed <sup>5</sup>                      | Ratio: 2.45<br>Failed <sup>5</sup>                      | Ratio: 3.14<br>AA 18pt <sup>2</sup>                     | Ratio: 3.14<br>AA 18pt <sup>2</sup>                     |
| Hex(AAABBB) | Ratio: 5.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.09<br>AA 18pt <sup>2</sup>                     | Ratio: 2.81<br>Failed <sup>5</sup>                      | Ratio: 1.95<br>Failed <sup>5</sup>  | Ratio: 1.38<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.77<br>Failed <sup>5</sup>                      | Ratio: 2.27<br>Failed <sup>5</sup>                      | Ratio: 2.27<br>Failed <sup>5</sup>                      |
| Hex(C5C6D7) | Ratio: 7.72<br>Passed <sup>6</sup>                      | Ratio: 5.49<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.78<br>AA 18pt <sup>2</sup>                     | Ratio: 2.62<br>Failed <sup>5</sup>  | Ratio: 1.86<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.69<br>Failed <sup>5</sup>                      | Ratio: 1.69<br>Failed <sup>5</sup>                      |
| Hex(E1E2F3) | Ratio: 10.16<br>Passed <sup>6</sup>                     | Ratio: 7.23<br>Passed <sup>6</sup>                      | Ratio: 4.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.44<br>AA 18pt <sup>2</sup> | Ratio: 2.45<br>Failed <sup>5</sup>  | Ratio: 1.77<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.28<br>Failed <sup>5</sup>                      | Ratio: 1.28<br>Failed <sup>5</sup>                      |
| Hex(FEFFFF) | Ratio: 13.01<br>Passed <sup>6</sup>                     | Ratio: 9.26<br>Passed <sup>6</sup>                      | Ratio: 6.38<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.41<br>AA 18pt <sup>2</sup> | Ratio: 3.14<br>AA 18pt <sup>2</sup> | Ratio: 2.27<br>Failed <sup>5</sup>                      | Ratio: 1.69<br>Failed <sup>5</sup>                      | Ratio: 1.28<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.00<br>Failed <sup>5</sup>                      |
| Hex(FFFFFF) | Ratio: 13.04<br>Passed <sup>6</sup>                     | Ratio: 9.27<br>Passed <sup>6</sup>                      | Ratio: 6.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.42<br>AA 18pt <sup>2</sup> | Ratio: 3.14<br>AA 18pt <sup>2</sup> | Ratio: 2.27<br>Failed <sup>5</sup>                      | Ratio: 1.69<br>Failed <sup>5</sup>                      | Ratio: 1.28<br>Failed <sup>5</sup>                      | Ratio: 1.00<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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