

# Converting Colors - WCAG Matrix

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

|             | Hex(BAB5B6)                                             | Hex(9F9A9B)                                             | Hex(858081)                                             | Hex(6C6768)                         | Hex(534F50)                         | Hex(3C3839)                                             | Hex(272324)                                             | Hex(120D0E)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(BAB5B6) |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.92<br>Failed <sup>5</sup>                      | Ratio: 2.75<br>Failed <sup>5</sup>  | Ratio: 3.99<br>AA 18pt <sup>2</sup> | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.67<br>Passed <sup>6</sup>                      | Ratio: 9.52<br>Passed <sup>6</sup>                      | Ratio: 10.37<br>Passed <sup>6</sup>                     |
| Hex(9F9A9B) | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>  | Ratio: 2.91<br>Failed <sup>5</sup>  | Ratio: 4.17<br>AA 18pt <sup>2</sup>                     | Ratio: 5.60<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.95<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.57<br>Passed <sup>6</sup>                      |
| Hex(858081) | Ratio: 1.92<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup>  | Ratio: 2.97<br>Failed <sup>5</sup>                      | Ratio: 3.99<br>AA 18pt <sup>2</sup>                     | Ratio: 4.96<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.40<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(6C6768) | Ratio: 2.75<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 2.79<br>Failed <sup>5</sup>                      | Ratio: 3.47<br>AA 18pt <sup>2</sup>                     | Ratio: 3.78<br>AA 18pt <sup>2</sup>                     |
| Hex(534F50) | 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: 1.92<br>Failed <sup>5</sup>                      | Ratio: 2.39<br>Failed <sup>5</sup>                      | Ratio: 2.60<br>Failed <sup>5</sup>                      |
| Hex(3C3839) | 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: 2.08<br>Failed <sup>5</sup>  | Ratio: 1.43<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.67<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      |
| Hex(272324) | Ratio: 7.67<br>Passed <sup>6</sup>                      | Ratio: 5.60<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.99<br>AA 18pt <sup>2</sup>                     | Ratio: 2.79<br>Failed <sup>5</sup>  | Ratio: 1.92<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.24<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |
| Hex(120D0E) | Ratio: 9.52<br>Passed <sup>6</sup>                      | Ratio: 6.95<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.96<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.47<br>AA 18pt <sup>2</sup> | Ratio: 2.39<br>Failed <sup>5</sup>  | Ratio: 1.67<br>Failed <sup>5</sup>                      | Ratio: 1.24<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.09<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 10.37<br>Passed <sup>6</sup>                     | Ratio: 7.57<br>Passed <sup>6</sup>                      | Ratio: 5.40<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.78<br>AA 18pt <sup>2</sup> | Ratio: 2.60<br>Failed <sup>5</sup>  | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.09<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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