

# Converting Colors - WCAG Matrix

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

Hex(8D9F9B) Hex(738581) Hex(5A6C68) Hex(435350) Hex(2C3C39) Hex(172723) Hex(00120E) Hex(000000)

|             | Hex(8D9F9B)   | Hex(738581)   | Hex(5A6C68)                         | Hex(435350)                        | Hex(2C3C39)                         | Hex(172723)   | Hex(00120E)   | Hex(000000)   |
|-------------|---|---|-------------------------------------|------------------------------------|-------------------------------------|---|---|---|
| Hex(8D9F9B) |   | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>  | Ratio: 2.92<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: 6.92<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.57<br>Passed <sup>6</sup>                      |
| Hex(738581) | 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: 2.98<br>Failed <sup>5</sup>  | Ratio: 4.00<br>AA 18pt <sup>2</sup>                     | Ratio: 4.94<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(5A6C68) | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 2.80<br>Failed <sup>5</sup>                      | Ratio: 3.46<br>AA 18pt <sup>2</sup>                     | Ratio: 3.78<br>AA 18pt <sup>2</sup>                     |
| Hex(435350) | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.46<br>Failed <sup>5</sup>  |                                    | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 1.92<br>Failed <sup>5</sup>                      | Ratio: 2.37<br>Failed <sup>5</sup>                      | Ratio: 2.59<br>Failed <sup>5</sup>                      |
| Hex(2C3C39) | Ratio: 4.17<br>AA 18pt <sup>2</sup>                     | Ratio: 2.98<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 1.43<br>Failed <sup>5</sup> |                                     | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.66<br>Failed <sup>5</sup>                      | Ratio: 1.81<br>Failed <sup>5</sup>                      |
| Hex(172723) | Ratio: 5.60<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.00<br>AA 18pt <sup>2</sup>                     | Ratio: 2.80<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(00120E) | Ratio: 6.92<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.94<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.46<br>AA 18pt <sup>2</sup> | Ratio: 2.37<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup>  | Ratio: 1.24<br>Failed <sup>5</sup>                      |   | Ratio: 1.09<br>Failed <sup>5</sup>                      |
| Hex(000000) | 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: 2.59<br>Failed <sup>5</sup> | Ratio: 1.81<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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