

# Converting Colors - WCAG Matrix

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

|             | Hex(828873)                                             | Hex(696F5A)                         | Hex(515643)                        | Hex(3A3F2D)                        | Hex(242918)                         | Hex(0F1500)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(828873) |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup> | Ratio: 2.96<br>Failed <sup>5</sup> | Ratio: 4.07<br>AA 18pt <sup>2</sup> | Ratio: 5.07<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.72<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(696F5A) | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 2.86<br>Failed <sup>5</sup>  | Ratio: 3.57<br>AA 18pt <sup>2</sup>                     | Ratio: 4.02<br>AA 18pt <sup>2</sup>                     |
| Hex(515643) | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.46<br>Failed <sup>5</sup>  |                                    | Ratio: 1.43<br>Failed <sup>5</sup> | Ratio: 1.97<br>Failed <sup>5</sup>  | Ratio: 2.45<br>Failed <sup>5</sup>                      | Ratio: 2.76<br>Failed <sup>5</sup>                      |
| Hex(3A3F2D) | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 1.43<br>Failed <sup>5</sup> |                                    | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>                      |
| Hex(242918) | Ratio: 4.07<br>AA 18pt <sup>2</sup>                     | Ratio: 2.86<br>Failed <sup>5</sup>  | Ratio: 1.97<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> |                                     | Ratio: 1.25<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |
| Hex(0F1500) | Ratio: 5.07<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.57<br>AA 18pt <sup>2</sup> | Ratio: 2.45<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.13<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 5.72<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.02<br>AA 18pt <sup>2</sup> | Ratio: 2.76<br>Failed <sup>5</sup> | Ratio: 1.93<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.13<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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