

# Converting Colors - WCAG Matrix

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

|             | Hex(966969)                                             | Hex(7C5050)                         | Hex(62393A)                        | Hex(492324)                        | Hex(310D0F)                         | Hex(1B0001)                         | Hex(000000)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(966969) |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 2.92<br>Failed <sup>5</sup> | Ratio: 3.78<br>AA 18pt <sup>2</sup> | Ratio: 4.32<br>AA 18pt <sup>2</sup> | Ratio: 4.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(7C5050) | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 2.01<br>Failed <sup>5</sup> | Ratio: 2.61<br>Failed <sup>5</sup>  | Ratio: 2.98<br>Failed <sup>5</sup>  | Ratio: 3.12<br>AA 18pt <sup>2</sup>                     |
| Hex(62393A) | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>  |                                    | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 2.17<br>Failed <sup>5</sup>                      |
| Hex(492324) | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 1.40<br>Failed <sup>5</sup> |                                    | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 1.48<br>Failed <sup>5</sup>  | Ratio: 1.55<br>Failed <sup>5</sup>                      |
| Hex(310D0F) | Ratio: 3.78<br>AA 18pt <sup>2</sup>                     | Ratio: 2.61<br>Failed <sup>5</sup>  | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> |                                     | Ratio: 1.14<br>Failed <sup>5</sup>  | Ratio: 1.20<br>Failed <sup>5</sup>                      |
| Hex(1B0001) | Ratio: 4.32<br>AA 18pt <sup>2</sup>                     | Ratio: 2.98<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup>  |                                     | Ratio: 1.05<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 4.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.12<br>AA 18pt <sup>2</sup> | Ratio: 2.17<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup>  | Ratio: 1.05<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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