

# Converting Colors - WCAG Matrix

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

|             | Hex(D37F7F)                                             | Hex(B66566)                                             | Hex(9A4C4E)                         | Hex(7E3437)                        | Hex(631B22)                         | Hex(48000C)                                             | Hex(300000)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(D37F7F) |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.92<br>Failed <sup>5</sup> | Ratio: 4.16<br>AA 18pt <sup>2</sup> | Ratio: 5.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.11<br>Passed <sup>6</sup>                      |
| Hex(B66566) | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup> | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 3.94<br>AA 18pt <sup>2</sup>                     | Ratio: 4.48<br>AA 18pt <sup>2</sup>                     | Ratio: 5.04<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(9A4C4E) | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 2.75<br>Failed <sup>5</sup>                      | Ratio: 3.13<br>AA 18pt <sup>2</sup>                     | Ratio: 3.52<br>AA 18pt <sup>2</sup>                     |
| Hex(7E3437) | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                    | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.90<br>Failed <sup>5</sup>                      | Ratio: 2.16<br>Failed <sup>5</sup>                      | Ratio: 2.43<br>Failed <sup>5</sup>                      |
| Hex(631B22) | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 1.42<br>Failed <sup>5</sup> |                                     | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.52<br>Failed <sup>5</sup>                      | Ratio: 1.71<br>Failed <sup>5</sup>                      |
| Hex(48000C) | Ratio: 5.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.94<br>AA 18pt <sup>2</sup>                     | Ratio: 2.75<br>Failed <sup>5</sup>  | Ratio: 1.90<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.14<br>Failed <sup>5</sup>                      | Ratio: 1.28<br>Failed <sup>5</sup>                      |
| Hex(300000) | Ratio: 6.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.48<br>AA 18pt <sup>2</sup>                     | Ratio: 3.13<br>AA 18pt <sup>2</sup> | Ratio: 2.16<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup>  | Ratio: 1.14<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.13<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 7.11<br>Passed <sup>6</sup>                      | Ratio: 5.04<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.52<br>AA 18pt <sup>2</sup> | Ratio: 2.43<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup>  | Ratio: 1.28<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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