

# Converting Colors - WCAG Matrix

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

|             | Hex(F98A71)                                             | Hex(DA7058)                                             | Hex(BC5641)                                             | Hex(9E3C2A)                         | Hex(812214)                         | Hex(650200)                                             | Hex(480000)                                             | Hex(2F0002)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(F98A71) |                                                         | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 2.84<br>Failed <sup>5</sup>  | Ratio: 4.10<br>AA 18pt <sup>2</sup> | Ratio: 5.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.94<br>Passed <sup>6</sup>                      | Ratio: 8.90<br>Passed <sup>6</sup>                      |
| Hex(DA7058) | Ratio: 1.38<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 2.96<br>Failed <sup>5</sup>  | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 5.05<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.44<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(BC5641) | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 3.56<br>AA 18pt <sup>2</sup>                     | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 4.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(9E3C2A) | Ratio: 2.84<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | 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: 2.46<br>Failed <sup>5</sup>                      | Ratio: 2.79<br>Failed <sup>5</sup>                      | Ratio: 3.13<br>AA 18pt <sup>2</sup>                     |
| Hex(812214) | Ratio: 4.10<br>AA 18pt <sup>2</sup>                     | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>  |                                     | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.70<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 2.17<br>Failed <sup>5</sup>                      |
| Hex(650200) | Ratio: 5.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 1.39<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.22<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.56<br>Failed <sup>5</sup>                      |
| Hex(480000) | Ratio: 6.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.05<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.56<br>AA 18pt <sup>2</sup>                     | Ratio: 2.46<br>Failed <sup>5</sup>  | Ratio: 1.70<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.14<br>Failed <sup>5</sup>                      | Ratio: 1.28<br>Failed <sup>5</sup>                      |
| Hex(2F0002) | Ratio: 7.94<br>Passed <sup>6</sup>                      | Ratio: 5.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 2.79<br>Failed <sup>5</sup>  | Ratio: 1.94<br>Failed <sup>5</sup>  | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.14<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.12<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 8.90<br>Passed <sup>6</sup>                      | Ratio: 6.44<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.13<br>AA 18pt <sup>2</sup> | Ratio: 2.17<br>Failed <sup>5</sup>  | Ratio: 1.56<br>Failed <sup>5</sup>                      | Ratio: 1.28<br>Failed <sup>5</sup>                      | Ratio: 1.12<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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