

# Converting Colors - WCAG Matrix

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

|             | Hex(B83719)                                             | Hex(FFFFFF)                                             | Hex(F76D48)                        | Hex(FF8961)                        | Hex(FFA47A)                         | Hex(FFC195)                         | Hex(FFDDB0)                                             | Hex(FFFBCE)                                             | Hex(FFFFE8)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(B83719) |                                                         | Ratio: 5.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.01<br>Failed <sup>5</sup> | Ratio: 2.50<br>Failed <sup>5</sup> | Ratio: 3.01<br>AA 18pt <sup>2</sup> | Ratio: 3.70<br>AA 18pt <sup>2</sup> | Ratio: 4.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.76<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(FFFFFF) | Ratio: 5.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 2.90<br>Failed <sup>5</sup> | Ratio: 2.33<br>Failed <sup>5</sup> | Ratio: 1.94<br>Failed <sup>5</sup>  | Ratio: 1.58<br>Failed <sup>5</sup>  | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 1.05<br>Failed <sup>5</sup>                      | Ratio: 1.01<br>Failed <sup>5</sup>                      |
| Hex(F76D48) | Ratio: 2.01<br>Failed <sup>5</sup>                      | Ratio: 2.90<br>Failed <sup>5</sup>                      |                                    | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup>  | Ratio: 2.24<br>Failed <sup>5</sup>                      | Ratio: 2.75<br>Failed <sup>5</sup>                      | Ratio: 2.86<br>Failed <sup>5</sup>                      |
| Hex(FF8961) | Ratio: 2.50<br>Failed <sup>5</sup>                      | Ratio: 2.33<br>Failed <sup>5</sup>                      | Ratio: 1.24<br>Failed <sup>5</sup> |                                    | Ratio: 1.20<br>Failed <sup>5</sup>  | Ratio: 1.48<br>Failed <sup>5</sup>  | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 2.21<br>Failed <sup>5</sup>                      | Ratio: 2.30<br>Failed <sup>5</sup>                      |
| Hex(FFA47A) | Ratio: 3.01<br>AA 18pt <sup>2</sup>                     | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> |                                     | Ratio: 1.23<br>Failed <sup>5</sup>  | Ratio: 1.50<br>Failed <sup>5</sup>                      | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 1.91<br>Failed <sup>5</sup>                      |
| Hex(FFC195) | Ratio: 3.70<br>AA 18pt <sup>2</sup>                     | Ratio: 1.58<br>Failed <sup>5</sup>                      | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup>  |                                     | Ratio: 1.22<br>Failed <sup>5</sup>                      | Ratio: 1.50<br>Failed <sup>5</sup>                      | Ratio: 1.56<br>Failed <sup>5</sup>                      |
| Hex(FFDDB0) | Ratio: 4.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 2.24<br>Failed <sup>5</sup> | Ratio: 1.80<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 1.28<br>Failed <sup>5</sup>                      |
| Hex(FFFBCE) | Ratio: 5.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.05<br>Failed <sup>5</sup>                      | Ratio: 2.75<br>Failed <sup>5</sup> | Ratio: 2.21<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup>  | Ratio: 1.50<br>Failed <sup>5</sup>  | Ratio: 1.23<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.04<br>Failed <sup>5</sup>                      |
| Hex(FFFFE8) | Ratio: 5.76<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.01<br>Failed <sup>5</sup>                      | Ratio: 2.86<br>Failed <sup>5</sup> | Ratio: 2.30<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 1.56<br>Failed <sup>5</sup>  | Ratio: 1.28<br>Failed <sup>5</sup>                      | Ratio: 1.04<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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