

# Converting Colors - WCAG Matrix

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

|             | Hex(FFE7E5)                         | Hex(FFCFCC)                        | Hex(FFB8B2)                        | Hex(FFA099)                        | Hex(FF897F)                        | Hex(FF7166)                        | Hex(FF5A4C)                        | Hex(FF4233)                        | Hex(FF2B19)                         | Hex(FF1400)                         |
|-------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(FFE7E5) |                                     | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.95<br>Failed <sup>5</sup> | Ratio: 2.28<br>Failed <sup>5</sup> | Ratio: 2.61<br>Failed <sup>5</sup> | Ratio: 2.93<br>Failed <sup>5</sup> | Ratio: 3.17<br>AA 18pt <sup>2</sup> | Ratio: 3.33<br>AA 18pt <sup>2</sup> |
| Hex(FFCFCC) | Ratio: 1.18<br>Failed <sup>5</sup>  |                                    | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.93<br>Failed <sup>5</sup> | Ratio: 2.21<br>Failed <sup>5</sup> | Ratio: 2.48<br>Failed <sup>5</sup> | Ratio: 2.68<br>Failed <sup>5</sup>  | Ratio: 2.81<br>Failed <sup>5</sup>  |
| Hex(FFB8B2) | Ratio: 1.40<br>Failed <sup>5</sup>  | Ratio: 1.18<br>Failed <sup>5</sup> |                                    | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup> | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 2.27<br>Failed <sup>5</sup>  | Ratio: 2.38<br>Failed <sup>5</sup>  |
| Hex(FFA099) | Ratio: 1.66<br>Failed <sup>5</sup>  | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> |                                    | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 2.01<br>Failed <sup>5</sup>  |
| Hex(FF897F) | Ratio: 1.95<br>Failed <sup>5</sup>  | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup>  | Ratio: 1.71<br>Failed <sup>5</sup>  |
| Hex(FF7166) | Ratio: 2.28<br>Failed <sup>5</sup>  | Ratio: 1.93<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup>  | Ratio: 1.46<br>Failed <sup>5</sup>  |
| Hex(FF5A4C) | Ratio: 2.61<br>Failed <sup>5</sup>  | Ratio: 2.21<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.22<br>Failed <sup>5</sup>  | Ratio: 1.27<br>Failed <sup>5</sup>  |
| Hex(FF4233) | Ratio: 2.93<br>Failed <sup>5</sup>  | Ratio: 2.48<br>Failed <sup>5</sup> | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> |                                    | Ratio: 1.08<br>Failed <sup>5</sup>  | Ratio: 1.14<br>Failed <sup>5</sup>  |
| Hex(FF2B19) | Ratio: 3.17<br>AA 18pt <sup>2</sup> | Ratio: 2.68<br>Failed <sup>5</sup> | Ratio: 2.27<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.22<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> |                                     | Ratio: 1.05<br>Failed <sup>5</sup>  |
| Hex(FF1400) | Ratio: 3.33<br>AA 18pt <sup>2</sup> | Ratio: 2.81<br>Failed <sup>5</sup> | Ratio: 2.38<br>Failed <sup>5</sup> | Ratio: 2.01<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> | Ratio: 1.14<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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