

# Converting Colors - WCAG Matrix

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

|             | Hex(99211F)                                             | Hex(FFFFFF)                         | Hex(D6584B)                         | Hex(F57363)                        | Hex(FF8E7D)                         | Hex(FFAA97)                         | Hex(FFC6B1)                                             | Hex(FFE3CD)                                             | Hex(FFFE9)                          |
|-------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|
| Hex(99211F) |                                                         | Ratio: 8.10<br>Passed <sup>6</sup>  | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 2.90<br>Failed <sup>5</sup> | Ratio: 3.63<br>AA 18pt <sup>2</sup> | Ratio: 4.42<br>AA 18pt <sup>2</sup> | Ratio: 5.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 8.00<br>Passed <sup>6</sup>  |
| Hex(FFFFFF) | Ratio: 8.10<br>Passed <sup>6</sup>                      |                                     | Ratio: 3.92<br>AA 18pt <sup>2</sup> | Ratio: 2.79<br>Failed <sup>5</sup> | Ratio: 2.23<br>Failed <sup>5</sup>  | Ratio: 1.83<br>Failed <sup>5</sup>  | Ratio: 1.50<br>Failed <sup>5</sup>                      | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 1.01<br>Failed <sup>5</sup>  |
| Hex(D6584B) | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 3.92<br>AA 18pt <sup>2</sup> |                                     | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup>  | Ratio: 2.14<br>Failed <sup>5</sup>  | Ratio: 2.61<br>Failed <sup>5</sup>                      | Ratio: 3.20<br>AA 18pt <sup>2</sup>                     | Ratio: 3.87<br>AA 18pt <sup>2</sup> |
| Hex(F57363) | Ratio: 2.90<br>Failed <sup>5</sup>                      | Ratio: 2.79<br>Failed <sup>5</sup>  | Ratio: 1.40<br>Failed <sup>5</sup>  |                                    | Ratio: 1.25<br>Failed <sup>5</sup>  | Ratio: 1.52<br>Failed <sup>5</sup>  | Ratio: 1.86<br>Failed <sup>5</sup>                      | Ratio: 2.28<br>Failed <sup>5</sup>                      | Ratio: 2.76<br>Failed <sup>5</sup>  |
| Hex(FF8E7D) | Ratio: 3.63<br>AA 18pt <sup>2</sup>                     | Ratio: 2.23<br>Failed <sup>5</sup>  | Ratio: 1.76<br>Failed <sup>5</sup>  | Ratio: 1.25<br>Failed <sup>5</sup> |                                     | Ratio: 1.22<br>Failed <sup>5</sup>  | Ratio: 1.48<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 2.20<br>Failed <sup>5</sup>  |
| Hex(FFAA97) | Ratio: 4.42<br>AA 18pt <sup>2</sup>                     | Ratio: 1.83<br>Failed <sup>5</sup>  | Ratio: 2.14<br>Failed <sup>5</sup>  | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.22<br>Failed <sup>5</sup>  |                                     | Ratio: 1.22<br>Failed <sup>5</sup>                      | Ratio: 1.50<br>Failed <sup>5</sup>                      | Ratio: 1.81<br>Failed <sup>5</sup>  |
| Hex(FFC6B1) | Ratio: 5.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.50<br>Failed <sup>5</sup>  | Ratio: 2.61<br>Failed <sup>5</sup>  | Ratio: 1.86<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 1.48<br>Failed <sup>5</sup>  |
| Hex(FFE3CD) | Ratio: 6.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.23<br>Failed <sup>5</sup>  | Ratio: 3.20<br>AA 18pt <sup>2</sup> | Ratio: 2.28<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup>  | Ratio: 1.50<br>Failed <sup>5</sup>  | Ratio: 1.23<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.21<br>Failed <sup>5</sup>  |
| Hex(FFFE9)  | Ratio: 8.00<br>Passed <sup>6</sup>                      | Ratio: 1.01<br>Failed <sup>5</sup>  | Ratio: 3.87<br>AA 18pt <sup>2</sup> | Ratio: 2.76<br>Failed <sup>5</sup> | Ratio: 2.20<br>Failed <sup>5</sup>  | Ratio: 1.81<br>Failed <sup>5</sup>  | Ratio: 1.48<br>Failed <sup>5</sup>                      | Ratio: 1.21<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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