

# Converting Colors - WCAG Matrix

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

|             | Hex(F01122)                         | Hex(FF4039)                         | Hex(FF6151)                        | Hex(FF806A)                        | Hex(FF9E83)                        | Hex(FFBC9E)                        | Hex(FFDAB9)                         | Hex(FFF8D5)                         | Hex(FFFFF2)                         | Hex(FFFFFF)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(F01122) |                                     | Ratio: 1.26<br>Failed <sup>5</sup>  | Ratio: 1.47<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.18<br>Failed <sup>5</sup> | Ratio: 2.69<br>Failed <sup>5</sup> | Ratio: 3.32<br>AA 18pt <sup>2</sup> | Ratio: 4.08<br>AA 18pt <sup>2</sup> | Ratio: 4.33<br>AA 18pt <sup>2</sup> | Ratio: 4.37<br>AA 18pt <sup>2</sup> |
| Hex(FF4039) | Ratio: 1.26<br>Failed <sup>5</sup>  |                                     | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup> | Ratio: 1.73<br>Failed <sup>5</sup> | Ratio: 2.14<br>Failed <sup>5</sup> | Ratio: 2.64<br>Failed <sup>5</sup>  | Ratio: 3.25<br>AA 18pt <sup>2</sup> | Ratio: 3.45<br>AA 18pt <sup>2</sup> | Ratio: 3.47<br>AA 18pt <sup>2</sup> |
| Hex(FF6151) | Ratio: 1.47<br>Failed <sup>5</sup>  | Ratio: 1.17<br>Failed <sup>5</sup>  |                                    | Ratio: 1.21<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 2.26<br>Failed <sup>5</sup>  | Ratio: 2.77<br>Failed <sup>5</sup>  | Ratio: 2.94<br>Failed <sup>5</sup>  | Ratio: 2.97<br>Failed <sup>5</sup>  |
| Hex(FF806A) | Ratio: 1.78<br>Failed <sup>5</sup>  | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.21<br>Failed <sup>5</sup> |                                    | Ratio: 1.22<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup>  | Ratio: 2.30<br>Failed <sup>5</sup>  | Ratio: 2.44<br>Failed <sup>5</sup>  | Ratio: 2.46<br>Failed <sup>5</sup>  |
| Hex(FF9E83) | Ratio: 2.18<br>Failed <sup>5</sup>  | Ratio: 1.73<br>Failed <sup>5</sup>  | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.22<br>Failed <sup>5</sup> |                                    | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup>  | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 1.99<br>Failed <sup>5</sup>  | Ratio: 2.01<br>Failed <sup>5</sup>  |
| Hex(FFBC9E) | Ratio: 2.69<br>Failed <sup>5</sup>  | Ratio: 2.14<br>Failed <sup>5</sup>  | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> |                                    | Ratio: 1.24<br>Failed <sup>5</sup>  | Ratio: 1.52<br>Failed <sup>5</sup>  | Ratio: 1.61<br>Failed <sup>5</sup>  | Ratio: 1.62<br>Failed <sup>5</sup>  |
| Hex(FFDAB9) | Ratio: 3.32<br>AA 18pt <sup>2</sup> | Ratio: 2.64<br>Failed <sup>5</sup>  | Ratio: 2.26<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> |                                     | Ratio: 1.23<br>Failed <sup>5</sup>  | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup>  |
| Hex(FFF8D5) | Ratio: 4.08<br>AA 18pt <sup>2</sup> | Ratio: 3.25<br>AA 18pt <sup>2</sup> | Ratio: 2.77<br>Failed <sup>5</sup> | Ratio: 2.30<br>Failed <sup>5</sup> | Ratio: 1.88<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup>  |                                     | Ratio: 1.06<br>Failed <sup>5</sup>  | Ratio: 1.07<br>Failed <sup>5</sup>  |
| Hex(FFFFF2) | Ratio: 4.33<br>AA 18pt <sup>2</sup> | Ratio: 3.45<br>AA 18pt <sup>2</sup> | Ratio: 2.94<br>Failed <sup>5</sup> | Ratio: 2.44<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 1.06<br>Failed <sup>5</sup>  |                                     | Ratio: 1.01<br>Failed <sup>5</sup>  |
| Hex(FFFFFF) | Ratio: 4.37<br>AA 18pt <sup>2</sup> | Ratio: 3.47<br>AA 18pt <sup>2</sup> | Ratio: 2.97<br>Failed <sup>5</sup> | Ratio: 2.46<br>Failed <sup>5</sup> | Ratio: 2.01<br>Failed <sup>5</sup> | Ratio: 1.62<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.07<br>Failed <sup>5</sup>  | Ratio: 1.01<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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