

# Converting Colors - WCAG Matrix

| Web Content Accessibility Guidelines (WCAG) 2.0 - Color Matrix. |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |
|-----------------------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
|                                                                 | Hex(79B400)                        | Hex(FFFFFF)                        | Hex(B3EC4D)                        | Hex(D0FF6A)                        | Hex(EEFF86)                        | Hex(FFFA2)                         | Hex(FFFBF)                         | Hex(FFFD C)                        | Hex(FFFFFA)                        |
| Hex(79B400)                                                     |                                    | Ratio: 2.52<br>Failed <sup>5</sup> | Ratio: 1.80<br>Failed <sup>5</sup> | Ratio: 2.18<br>Failed <sup>5</sup> | Ratio: 2.31<br>Failed <sup>5</sup> | Ratio: 2.41<br>Failed <sup>5</sup> | Ratio: 2.43<br>Failed <sup>5</sup> | Ratio: 2.47<br>Failed <sup>5</sup> | Ratio: 2.51<br>Failed <sup>5</sup> |
| Hex(FFFFFF)                                                     | Ratio: 2.52<br>Failed <sup>5</sup> |                                    | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.00<br>Failed <sup>5</sup> |
| Hex(B3EC4D)                                                     | Ratio: 1.80<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> |                                    | Ratio: 1.21<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> |
| Hex(D0FF6A)                                                     | Ratio: 2.18<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.21<br>Failed <sup>5</sup> |                                    | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.13<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |
| Hex(EEFF86)                                                     | Ratio: 2.31<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> |                                    | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |
| Hex(FFFA2)                                                      | Ratio: 2.41<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> |                                    | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> |
| Hex(FFFBF)                                                      | Ratio: 2.43<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.01<br>Failed <sup>5</sup> |                                    | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> |
| Hex(FFFD C)                                                     | Ratio: 2.47<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.13<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.01<br>Failed <sup>5</sup> |                                    | Ratio: 1.02<br>Failed <sup>5</sup> |
| Hex(FFFFFA)                                                     | Ratio: 2.51<br>Failed <sup>5</sup> | Ratio: 1.00<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.02<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.