

# Converting Colors - WCAG Matrix

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

|             | Hex(843538)                                             | Hex(FFFFFF)                         | Hex(BD6767)                         | Hex(DA8180)                        | Hex(F89B9A)                         | Hex(FFB7B5)                                             | Hex(FFD3D0)                                             | Hex(FFEFEC)                         |
|-------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|
| Hex(843538) |                                                         | Ratio: 8.24<br>Passed <sup>6</sup>  | Ratio: 2.08<br>Failed <sup>5</sup>  | Ratio: 2.92<br>Failed <sup>5</sup> | Ratio: 3.98<br>AA 18pt <sup>2</sup> | Ratio: 4.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.38<br>Passed <sup>6</sup>  |
| Hex(FFFFFF) | Ratio: 8.24<br>Passed <sup>6</sup>                      |                                     | Ratio: 3.96<br>AA 18pt <sup>2</sup> | Ratio: 2.83<br>Failed <sup>5</sup> | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 1.65<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.12<br>Failed <sup>5</sup>  |
| Hex(BD6767) | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 3.96<br>AA 18pt <sup>2</sup> |                                     | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 2.39<br>Failed <sup>5</sup>                      | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 3.55<br>AA 18pt <sup>2</sup> |
| Hex(DA8180) | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.83<br>Failed <sup>5</sup>  | Ratio: 1.40<br>Failed <sup>5</sup>  |                                    | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 2.53<br>Failed <sup>5</sup>  |
| Hex(F89B9A) | Ratio: 3.98<br>AA 18pt <sup>2</sup>                     | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup> |                                     | Ratio: 1.25<br>Failed <sup>5</sup>                      | Ratio: 1.53<br>Failed <sup>5</sup>                      | Ratio: 1.85<br>Failed <sup>5</sup>  |
| Hex(FFB7B5) | Ratio: 4.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.65<br>Failed <sup>5</sup>  | Ratio: 2.39<br>Failed <sup>5</sup>  | Ratio: 1.71<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>  |
| Hex(FFD3D0) | Ratio: 6.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 2.92<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.22<br>Failed <sup>5</sup>  |
| Hex(FFEFEC) | Ratio: 7.38<br>Passed <sup>6</sup>                      | Ratio: 1.12<br>Failed <sup>5</sup>  | Ratio: 3.55<br>AA 18pt <sup>2</sup> | Ratio: 2.53<br>Failed <sup>5</sup> | Ratio: 1.85<br>Failed <sup>5</sup>  | Ratio: 1.48<br>Failed <sup>5</sup>                      | Ratio: 1.22<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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