

# Converting Colors - WCAG Matrix

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

|             | Hex(A63852)                                             | Hex(FFFFFF)                                             | Hex(E16D83)                         | Hex(FF889D)                        | Hex(FFA4B8)                         | Hex(FFC0D3)                         | Hex(FFDCEF)                                             | Hex(FFFAFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(A63852) |                                                         | Ratio: 6.35<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.03<br>Failed <sup>5</sup>  | Ratio: 2.80<br>Failed <sup>5</sup> | Ratio: 3.40<br>AA 18pt <sup>2</sup> | Ratio: 4.15<br>AA 18pt <sup>2</sup> | Ratio: 5.06<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(FFFFFF) | Ratio: 6.35<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 3.13<br>AA 18pt <sup>2</sup> | Ratio: 2.27<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup>  | Ratio: 1.53<br>Failed <sup>5</sup>  | Ratio: 1.25<br>Failed <sup>5</sup>                      | Ratio: 1.03<br>Failed <sup>5</sup>                      |
| Hex(E16D83) | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 3.13<br>AA 18pt <sup>2</sup>                     |                                     | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.68<br>Failed <sup>5</sup>  | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 2.49<br>Failed <sup>5</sup>                      | Ratio: 3.03<br>AA 18pt <sup>2</sup>                     |
| Hex(FF889D) | Ratio: 2.80<br>Failed <sup>5</sup>                      | Ratio: 2.27<br>Failed <sup>5</sup>                      | Ratio: 1.38<br>Failed <sup>5</sup>  |                                    | Ratio: 1.22<br>Failed <sup>5</sup>  | Ratio: 1.48<br>Failed <sup>5</sup>  | Ratio: 1.81<br>Failed <sup>5</sup>                      | Ratio: 2.20<br>Failed <sup>5</sup>                      |
| Hex(FFA4B8) | Ratio: 3.40<br>AA 18pt <sup>2</sup>                     | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 1.68<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup> |                                     | Ratio: 1.22<br>Failed <sup>5</sup>  | Ratio: 1.49<br>Failed <sup>5</sup>                      | Ratio: 1.81<br>Failed <sup>5</sup>                      |
| Hex(FFC0D3) | Ratio: 4.15<br>AA 18pt <sup>2</sup>                     | Ratio: 1.53<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.22<br>Failed <sup>5</sup>  |                                     | Ratio: 1.22<br>Failed <sup>5</sup>                      | Ratio: 1.48<br>Failed <sup>5</sup>                      |
| Hex(FFDCEF) | Ratio: 5.06<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.25<br>Failed <sup>5</sup>                      | Ratio: 2.49<br>Failed <sup>5</sup>  | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.22<br>Failed <sup>5</sup>                      |
| Hex(FFFAFF) | Ratio: 6.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.03<br>Failed <sup>5</sup>                      | Ratio: 3.03<br>AA 18pt <sup>2</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: 1.22<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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