

# Converting Colors - WCAG Matrix

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

|             | Hex(463346)                                             | Hex(FFFFFF)                                             | Hex(766177)                                             | Hex(907A90)                         | Hex(AB94AB)                         | Hex(C6AEC6)                                             | Hex(E2CAE2)                         | Hex(FFE6FF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(463346) |                                                         | Ratio: 11.52<br>Passed <sup>6</sup>                     | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 4.15<br>AA 18pt <sup>2</sup> | Ratio: 5.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.56<br>Passed <sup>6</sup>  | Ratio: 9.89<br>Passed <sup>6</sup>                      |
| Hex(FFFFFF) | Ratio: 11.52<br>Passed <sup>6</sup>                     |                                                         | Ratio: 5.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.91<br>AA 18pt <sup>2</sup> | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.52<br>Failed <sup>5</sup>  | Ratio: 1.17<br>Failed <sup>5</sup>                      |
| Hex(766177) | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 5.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.74<br>Failed <sup>5</sup>                      | Ratio: 3.68<br>AA 18pt <sup>2</sup> | Ratio: 4.81<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(907A90) | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 3.91<br>AA 18pt <sup>2</sup>                     | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.91<br>Failed <sup>5</sup>                      | Ratio: 2.56<br>Failed <sup>5</sup>  | Ratio: 3.35<br>AA 18pt <sup>2</sup>                     |
| Hex(AB94AB) | Ratio: 4.15<br>AA 18pt <sup>2</sup>                     | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>  |                                     | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>  | Ratio: 2.38<br>Failed <sup>5</sup>                      |
| Hex(C6AEC6) | Ratio: 5.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 2.74<br>Failed <sup>5</sup>                      | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>                      |
| Hex(E2CAE2) | Ratio: 7.56<br>Passed <sup>6</sup>                      | Ratio: 1.52<br>Failed <sup>5</sup>                      | Ratio: 3.68<br>AA 18pt <sup>2</sup>                     | Ratio: 2.56<br>Failed <sup>5</sup>  | Ratio: 1.82<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.31<br>Failed <sup>5</sup>                      |
| Hex(FFE6FF) | Ratio: 9.89<br>Passed <sup>6</sup>                      | Ratio: 1.17<br>Failed <sup>5</sup>                      | Ratio: 4.81<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.35<br>AA 18pt <sup>2</sup> | Ratio: 2.38<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 1.31<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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