

# Converting Colors - WCAG Matrix

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

|             | Hex(FFDCFC)                                             | Hex(FFC0DF)                                             | Hex(E5A5C3)                                             | Hex(C98AA8)                                             | Hex(AD708E)                                             | Hex(925774)                         | Hex(773F5C)                                             | Hex(5D2744)                                             | Hex(45102E)                                             | Hex(2D0019)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(FFDCFC) |                                                         | Ratio: 1.22<br>Failed <sup>5</sup>                      | Ratio: 1.61<br>Failed <sup>5</sup>                      | Ratio: 2.20<br>Failed <sup>5</sup>                      | Ratio: 3.08<br>AA 18pt <sup>2</sup>                     | Ratio: 4.40<br>AA 18pt <sup>2</sup> | Ratio: 6.38<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 9.19<br>Passed <sup>6</sup>                      | Ratio: 12.36<br>Passed <sup>6</sup>                     | Ratio: 15.01<br>Passed <sup>6</sup>                     |
| Hex(FFC0DF) | Ratio: 1.22<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 2.53<br>Failed <sup>5</sup>                      | Ratio: 3.61<br>AA 18pt <sup>2</sup> | Ratio: 5.23<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.53<br>Passed <sup>6</sup>                      | Ratio: 10.14<br>Passed <sup>6</sup>                     | Ratio: 12.31<br>Passed <sup>6</sup>                     |
| Hex(E5A5C3) | Ratio: 1.61<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.91<br>Failed <sup>5</sup>                      | Ratio: 2.74<br>Failed <sup>5</sup>  | Ratio: 3.96<br>AA 18pt <sup>2</sup>                     | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.68<br>Passed <sup>6</sup>                      | Ratio: 9.33<br>Passed <sup>6</sup>                      |
| Hex(C98AA8) | Ratio: 2.20<br>Failed <sup>5</sup>                      | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>  | Ratio: 2.90<br>Failed <sup>5</sup>                      | Ratio: 4.18<br>AA 18pt <sup>2</sup>                     | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(AD708E) | Ratio: 3.08<br>AA 18pt <sup>2</sup>                     | Ratio: 2.53<br>Failed <sup>5</sup>                      | Ratio: 1.91<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 2.98<br>Failed <sup>5</sup>                      | Ratio: 4.01<br>AA 18pt <sup>2</sup>                     | Ratio: 4.87<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(925774) | Ratio: 4.40<br>AA 18pt <sup>2</sup>                     | Ratio: 3.61<br>AA 18pt <sup>2</sup>                     | Ratio: 2.74<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 2.81<br>Failed <sup>5</sup>                      | Ratio: 3.41<br>AA 18pt <sup>2</sup>                     |
| Hex(773F5C) | Ratio: 6.38<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.23<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.96<br>AA 18pt <sup>2</sup>                     | Ratio: 2.90<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 2.35<br>Failed <sup>5</sup>                      |
| Hex(5D2744) | Ratio: 9.19<br>Passed <sup>6</sup>                      | Ratio: 7.53<br>Passed <sup>6</sup>                      | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.18<br>AA 18pt <sup>2</sup>                     | Ratio: 2.98<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.63<br>Failed <sup>5</sup>                      |
| Hex(45102E) | Ratio: 12.36<br>Passed <sup>6</sup>                     | Ratio: 10.14<br>Passed <sup>6</sup>                     | Ratio: 7.68<br>Passed <sup>6</sup>                      | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.01<br>AA 18pt <sup>2</sup>                     | Ratio: 2.81<br>Failed <sup>5</sup>  | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.21<br>Failed <sup>5</sup>                      |
| Hex(2D0019) | Ratio: 15.01<br>Passed <sup>6</sup>                     | Ratio: 12.31<br>Passed <sup>6</sup>                     | Ratio: 9.33<br>Passed <sup>6</sup>                      | Ratio: 6.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.87<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.41<br>AA 18pt <sup>2</sup> | Ratio: 2.35<br>Failed <sup>5</sup>                      | Ratio: 1.63<br>Failed <sup>5</sup>                      | Ratio: 1.21<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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