

# Converting Colors - WCAG Matrix

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

|             | Hex(3D2E3D)                                             | Hex(544454)                                             | Hex(6D5C6C)                                             | Hex(867586)                         | Hex(A08EA0)                         | Hex(BBA9BB)                                             | Hex(D7C4D7)                                             | Hex(F3E0F3)                                             | Hex(FFFCFF)                                             | Hex(FFFFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(3D2E3D) |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 2.96<br>Failed <sup>5</sup>  | Ratio: 4.15<br>AA 18pt <sup>2</sup> | Ratio: 5.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.71<br>Passed <sup>6</sup>                      | Ratio: 10.12<br>Passed <sup>6</sup>                     | Ratio: 12.45<br>Passed <sup>6</sup>                     | Ratio: 12.68<br>Passed <sup>6</sup>                     |
| Hex(544454) | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.46<br>Failed <sup>5</sup>                      | Ratio: 2.10<br>Failed <sup>5</sup>  | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 4.08<br>AA 18pt <sup>2</sup>                     | Ratio: 5.47<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.19<br>Passed <sup>6</sup>                      | Ratio: 8.84<br>Passed <sup>6</sup>                      | Ratio: 9.01<br>Passed <sup>6</sup>                      |
| Hex(6D5C6C) | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 1.46<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.80<br>Failed <sup>5</sup>                      | Ratio: 3.76<br>AA 18pt <sup>2</sup>                     | Ratio: 4.94<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.07<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.18<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(867586) | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 2.10<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.40<br>Failed <sup>5</sup>  | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 2.60<br>Failed <sup>5</sup>                      | Ratio: 3.42<br>AA 18pt <sup>2</sup>                     | Ratio: 4.21<br>AA 18pt <sup>2</sup>                     | Ratio: 4.28<br>AA 18pt <sup>2</sup>                     |
| Hex(A08EA0) | Ratio: 4.15<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>  |                                     | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.86<br>Failed <sup>5</sup>                      | Ratio: 2.44<br>Failed <sup>5</sup>                      | Ratio: 3.00<br>AA 18pt <sup>2</sup>                     | Ratio: 3.06<br>AA 18pt <sup>2</sup>                     |
| Hex(BBA9BB) | Ratio: 5.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.08<br>AA 18pt <sup>2</sup>                     | Ratio: 2.80<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>  | Ratio: 1.38<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.76<br>Failed <sup>5</sup>                      | Ratio: 2.17<br>Failed <sup>5</sup>                      | Ratio: 2.21<br>Failed <sup>5</sup>                      |
| Hex(D7C4D7) | Ratio: 7.71<br>Passed <sup>6</sup>                      | Ratio: 5.47<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.76<br>AA 18pt <sup>2</sup>                     | Ratio: 2.60<br>Failed <sup>5</sup>  | Ratio: 1.86<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.62<br>Failed <sup>5</sup>                      | Ratio: 1.64<br>Failed <sup>5</sup>                      |
| Hex(F3E0F3) | Ratio: 10.12<br>Passed <sup>6</sup>                     | Ratio: 7.19<br>Passed <sup>6</sup>                      | Ratio: 4.94<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.42<br>AA 18pt <sup>2</sup> | Ratio: 2.44<br>Failed <sup>5</sup>  | Ratio: 1.76<br>Failed <sup>5</sup>                      | Ratio: 1.31<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 1.25<br>Failed <sup>5</sup>                      |
| Hex(FFFCFF) | Ratio: 12.45<br>Passed <sup>6</sup>                     | Ratio: 8.84<br>Passed <sup>6</sup>                      | Ratio: 6.07<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.21<br>AA 18pt <sup>2</sup> | Ratio: 3.00<br>AA 18pt <sup>2</sup> | Ratio: 2.17<br>Failed <sup>5</sup>                      | Ratio: 1.62<br>Failed <sup>5</sup>                      | Ratio: 1.23<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.02<br>Failed <sup>5</sup>                      |
| Hex(FFFFFF) | Ratio: 12.68<br>Passed <sup>6</sup>                     | Ratio: 9.01<br>Passed <sup>6</sup>                      | Ratio: 6.18<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.28<br>AA 18pt <sup>2</sup> | Ratio: 3.06<br>AA 18pt <sup>2</sup> | Ratio: 2.21<br>Failed <sup>5</sup>                      | Ratio: 1.64<br>Failed <sup>5</sup>                      | Ratio: 1.25<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.

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