

# Converting Colors - WCAG Matrix

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

|             | Hex(D9C8CB)                                             | Hex(BDADB0)                                             | Hex(A29295)                                             | Hex(88787B)                                             | Hex(6E6062)                         | Hex(56484B)                                             | Hex(3F3134)                                             | Hex(291C1F)                                             | Hex(150206)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(D9C8CB) |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.85<br>Failed <sup>5</sup>                      | Ratio: 2.60<br>Failed <sup>5</sup>                      | Ratio: 3.72<br>AA 18pt <sup>2</sup> | Ratio: 5.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.69<br>Passed <sup>6</sup>                      | Ratio: 10.21<br>Passed <sup>6</sup>                     | Ratio: 12.53<br>Passed <sup>6</sup>                     | Ratio: 13.07<br>Passed <sup>6</sup>                     |
| Hex(BDADB0) | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.95<br>Failed <sup>5</sup>                      | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 4.03<br>AA 18pt <sup>2</sup>                     | Ratio: 5.75<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.63<br>Passed <sup>6</sup>                      | Ratio: 9.36<br>Passed <sup>6</sup>                      | Ratio: 9.77<br>Passed <sup>6</sup>                      |
| Hex(A29295) | Ratio: 1.85<br>Failed <sup>5</sup>                      | Ratio: 1.38<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 4.17<br>AA 18pt <sup>2</sup>                     | Ratio: 5.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.79<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.08<br>Passed <sup>6</sup>                      |
| Hex(88787B) | Ratio: 2.60<br>Failed <sup>5</sup>                      | Ratio: 1.95<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 3.92<br>AA 18pt <sup>2</sup>                     | Ratio: 4.81<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.02<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(6E6062) | Ratio: 3.72<br>AA 18pt <sup>2</sup>                     | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 2.74<br>Failed <sup>5</sup>                      | Ratio: 3.37<br>AA 18pt <sup>2</sup>                     | Ratio: 3.51<br>AA 18pt <sup>2</sup>                     |
| Hex(56484B) | Ratio: 5.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.03<br>AA 18pt <sup>2</sup>                     | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>                      | Ratio: 2.32<br>Failed <sup>5</sup>                      | Ratio: 2.42<br>Failed <sup>5</sup>                      |
| Hex(3F3134) | Ratio: 7.69<br>Passed <sup>6</sup>                      | Ratio: 5.75<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.17<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.63<br>Failed <sup>5</sup>                      | Ratio: 1.70<br>Failed <sup>5</sup>                      |
| Hex(291C1F) | Ratio: 10.21<br>Passed <sup>6</sup>                     | Ratio: 7.63<br>Passed <sup>6</sup>                      | Ratio: 5.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.92<br>AA 18pt <sup>2</sup>                     | Ratio: 2.74<br>Failed <sup>5</sup>  | Ratio: 1.89<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 1.28<br>Failed <sup>5</sup>                      |
| Hex(150206) | Ratio: 12.53<br>Passed <sup>6</sup>                     | Ratio: 9.36<br>Passed <sup>6</sup>                      | Ratio: 6.79<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.81<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.37<br>AA 18pt <sup>2</sup> | Ratio: 2.32<br>Failed <sup>5</sup>                      | Ratio: 1.63<br>Failed <sup>5</sup>                      | Ratio: 1.23<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.04<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 13.07<br>Passed <sup>6</sup>                     | Ratio: 9.77<br>Passed <sup>6</sup>                      | Ratio: 7.08<br>Passed <sup>6</sup>                      | Ratio: 5.02<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.51<br>AA 18pt <sup>2</sup> | Ratio: 2.42<br>Failed <sup>5</sup>                      | Ratio: 1.70<br>Failed <sup>5</sup>                      | Ratio: 1.28<br>Failed <sup>5</sup>                      | Ratio: 1.04<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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