

# Converting Colors - WCAG Matrix

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

|             | Hex(003636)                                             | Hex(1D4D4D)                                             | Hex(376565)                                             | Hex(4F7E7C)                         | Hex(699896)                         | Hex(83B3B3)                                             | Hex(9ECFCD)                                             | Hex(B9EBEB)                                             | Hex(D5FFFF)                                             | Hex(F2FFFD)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(003636) |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 2.91<br>Failed <sup>5</sup>  | Ratio: 4.13<br>AA 18pt <sup>2</sup> | Ratio: 5.73<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.75<br>Passed <sup>6</sup>                      | Ratio: 10.21<br>Passed <sup>6</sup>                     | Ratio: 12.38<br>Passed <sup>6</sup>                     | Ratio: 12.97<br>Passed <sup>6</sup>                     |
| Hex(1D4D4D) | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 2.94<br>Failed <sup>5</sup>  | Ratio: 4.08<br>AA 18pt <sup>2</sup>                     | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.27<br>Passed <sup>6</sup>                      | Ratio: 8.81<br>Passed <sup>6</sup>                      | Ratio: 9.23<br>Passed <sup>6</sup>                      |
| Hex(376565) | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.03<br>Failed <sup>5</sup>  | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 3.82<br>AA 18pt <sup>2</sup>                     | Ratio: 5.03<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.10<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.38<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(4F7E7C) | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 2.66<br>Failed <sup>5</sup>                      | Ratio: 3.50<br>AA 18pt <sup>2</sup>                     | Ratio: 4.25<br>AA 18pt <sup>2</sup>                     | Ratio: 4.45<br>AA 18pt <sup>2</sup>                     |
| Hex(699896) | Ratio: 4.13<br>AA 18pt <sup>2</sup>                     | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>  |                                     | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>                      | Ratio: 2.47<br>Failed <sup>5</sup>                      | Ratio: 3.00<br>AA 18pt <sup>2</sup>                     | Ratio: 3.14<br>AA 18pt <sup>2</sup>                     |
| Hex(83B3B3) | Ratio: 5.73<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.08<br>AA 18pt <sup>2</sup>                     | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>  | Ratio: 1.39<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.78<br>Failed <sup>5</sup>                      | Ratio: 2.16<br>Failed <sup>5</sup>                      | Ratio: 2.26<br>Failed <sup>5</sup>                      |
| Hex(9ECFCD) | Ratio: 7.75<br>Passed <sup>6</sup>                      | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.82<br>AA 18pt <sup>2</sup>                     | Ratio: 2.66<br>Failed <sup>5</sup>  | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.60<br>Failed <sup>5</sup>                      | Ratio: 1.67<br>Failed <sup>5</sup>                      |
| Hex(B9EBEB) | Ratio: 10.21<br>Passed <sup>6</sup>                     | Ratio: 7.27<br>Passed <sup>6</sup>                      | Ratio: 5.03<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.50<br>AA 18pt <sup>2</sup> | Ratio: 2.47<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.21<br>Failed <sup>5</sup>                      | Ratio: 1.27<br>Failed <sup>5</sup>                      |
| Hex(D5FFFF) | Ratio: 12.38<br>Passed <sup>6</sup>                     | Ratio: 8.81<br>Passed <sup>6</sup>                      | Ratio: 6.10<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.25<br>AA 18pt <sup>2</sup> | Ratio: 3.00<br>AA 18pt <sup>2</sup> | Ratio: 2.16<br>Failed <sup>5</sup>                      | Ratio: 1.60<br>Failed <sup>5</sup>                      | Ratio: 1.21<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.05<br>Failed <sup>5</sup>                      |
| Hex(F2FFFD) | Ratio: 12.97<br>Passed <sup>6</sup>                     | Ratio: 9.23<br>Passed <sup>6</sup>                      | Ratio: 6.38<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.45<br>AA 18pt <sup>2</sup> | Ratio: 3.14<br>AA 18pt <sup>2</sup> | Ratio: 2.26<br>Failed <sup>5</sup>                      | Ratio: 1.67<br>Failed <sup>5</sup>                      | Ratio: 1.27<br>Failed <sup>5</sup>                      | Ratio: 1.05<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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