

# Converting Colors - WCAG Matrix

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

|             | Hex(16CDCD)                                             | Hex(00B1B2)                                             | Hex(009697)                                             | Hex(007C7D)                         | Hex(006264)                         | Hex(00494C)                                             | Hex(003236)                                             | Hex(001B20)                                             | Hex(000008)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(16CDCD) |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.83<br>Failed <sup>5</sup>                      | Ratio: 2.55<br>Failed <sup>5</sup>  | Ratio: 3.63<br>AA 18pt <sup>2</sup> | Ratio: 5.18<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.05<br>Passed <sup>6</sup>                      | Ratio: 9.04<br>Passed <sup>6</sup>                      | Ratio: 10.61<br>Passed <sup>6</sup>                     | Ratio: 10.65<br>Passed <sup>6</sup>                     |
| Hex(00B1B2) | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>  | Ratio: 2.71<br>Failed <sup>5</sup>  | Ratio: 3.86<br>AA 18pt <sup>2</sup>                     | Ratio: 5.25<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.90<br>Passed <sup>6</sup>                      | Ratio: 7.93<br>Passed <sup>6</sup>                      |
| Hex(009697) | Ratio: 1.83<br>Failed <sup>5</sup>                      | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>  | Ratio: 1.98<br>Failed <sup>5</sup>  | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 3.85<br>AA 18pt <sup>2</sup>                     | Ratio: 4.93<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.79<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.81<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(007C7D) | Ratio: 2.55<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 2.77<br>Failed <sup>5</sup>                      | Ratio: 3.55<br>AA 18pt <sup>2</sup>                     | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 4.18<br>AA 18pt <sup>2</sup>                     |
| Hex(006264) | Ratio: 3.63<br>AA 18pt <sup>2</sup>                     | Ratio: 2.71<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>  |                                     | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 2.49<br>Failed <sup>5</sup>                      | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.93<br>Failed <sup>5</sup>                      |
| Hex(00494C) | Ratio: 5.18<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.86<br>AA 18pt <sup>2</sup>                     | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>  | Ratio: 1.42<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      |
| Hex(003236) | Ratio: 7.05<br>Passed <sup>6</sup>                      | Ratio: 5.25<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.85<br>AA 18pt <sup>2</sup>                     | Ratio: 2.77<br>Failed <sup>5</sup>  | Ratio: 1.94<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.28<br>Failed <sup>5</sup>                      | Ratio: 1.50<br>Failed <sup>5</sup>                      | Ratio: 1.51<br>Failed <sup>5</sup>                      |
| Hex(001B20) | Ratio: 9.04<br>Passed <sup>6</sup>                      | Ratio: 6.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.93<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.55<br>AA 18pt <sup>2</sup> | Ratio: 2.49<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 1.28<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.17<br>Failed <sup>5</sup>                      | Ratio: 1.18<br>Failed <sup>5</sup>                      |
| Hex(000008) | Ratio: 10.61<br>Passed <sup>6</sup>                     | Ratio: 7.90<br>Passed <sup>6</sup>                      | Ratio: 5.79<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.16<br>AA 18pt <sup>2</sup> | Ratio: 2.92<br>Failed <sup>5</sup>  | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 1.50<br>Failed <sup>5</sup>                      | Ratio: 1.17<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.00<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 10.65<br>Passed <sup>6</sup>                     | Ratio: 7.93<br>Passed <sup>6</sup>                      | Ratio: 5.81<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.18<br>AA 18pt <sup>2</sup> | Ratio: 2.93<br>Failed <sup>5</sup>  | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.51<br>Failed <sup>5</sup>                      | Ratio: 1.18<br>Failed <sup>5</sup>                      | Ratio: 1.00<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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