

# Converting Colors - WCAG Matrix

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

|             | Hex(1ACCE6)                                             | Hex(00B0CA)                                             | Hex(0095AE)                                             | Hex(007B94)                         | Hex(00627A)                         | Hex(004961)                                             | Hex(003249)                                             | Hex(001E32)                                             | Hex(00021D)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(1ACCE6) |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.83<br>Failed <sup>5</sup>                      | Ratio: 2.54<br>Failed <sup>5</sup>  | Ratio: 3.57<br>AA 18pt <sup>2</sup> | Ratio: 5.09<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.97<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 8.79<br>Passed <sup>6</sup>                      | Ratio: 10.55<br>Passed <sup>6</sup>                     | Ratio: 10.82<br>Passed <sup>6</sup>                     |
| Hex(00B0CA) | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>  | Ratio: 2.66<br>Failed <sup>5</sup>  | Ratio: 3.79<br>AA 18pt <sup>2</sup>                     | Ratio: 5.19<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.86<br>Passed <sup>6</sup>                      | Ratio: 8.06<br>Passed <sup>6</sup>                      |
| Hex(0095AE) | Ratio: 1.83<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>  | Ratio: 1.95<br>Failed <sup>5</sup>  | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 3.81<br>AA 18pt <sup>2</sup>                     | Ratio: 4.80<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.76<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.91<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(007B94) | Ratio: 2.54<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 2.74<br>Failed <sup>5</sup>                      | Ratio: 3.46<br>AA 18pt <sup>2</sup>                     | Ratio: 4.15<br>AA 18pt <sup>2</sup>                     | Ratio: 4.26<br>AA 18pt <sup>2</sup>                     |
| Hex(00627A) | Ratio: 3.57<br>AA 18pt <sup>2</sup>                     | Ratio: 2.66<br>Failed <sup>5</sup>                      | Ratio: 1.95<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>  |                                     | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 1.95<br>Failed <sup>5</sup>                      | Ratio: 2.46<br>Failed <sup>5</sup>                      | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 3.03<br>AA 18pt <sup>2</sup>                     |
| Hex(004961) | Ratio: 5.09<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.79<br>AA 18pt <sup>2</sup>                     | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>  | Ratio: 1.42<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.73<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 2.13<br>Failed <sup>5</sup>                      |
| Hex(003249) | Ratio: 6.97<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.19<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.81<br>AA 18pt <sup>2</sup>                     | Ratio: 2.74<br>Failed <sup>5</sup>  | Ratio: 1.95<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.26<br>Failed <sup>5</sup>                      | Ratio: 1.51<br>Failed <sup>5</sup>                      | Ratio: 1.55<br>Failed <sup>5</sup>                      |
| Hex(001E32) | Ratio: 8.79<br>Passed <sup>6</sup>                      | Ratio: 6.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.80<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.46<br>AA 18pt <sup>2</sup> | Ratio: 2.46<br>Failed <sup>5</sup>  | Ratio: 1.73<br>Failed <sup>5</sup>                      | Ratio: 1.26<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.20<br>Failed <sup>5</sup>                      | Ratio: 1.23<br>Failed <sup>5</sup>                      |
| Hex(00021D) | Ratio: 10.55<br>Passed <sup>6</sup>                     | Ratio: 7.86<br>Passed <sup>6</sup>                      | Ratio: 5.76<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.15<br>AA 18pt <sup>2</sup> | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.51<br>Failed <sup>5</sup>                      | Ratio: 1.20<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.03<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 10.82<br>Passed <sup>6</sup>                     | Ratio: 8.06<br>Passed <sup>6</sup>                      | Ratio: 5.91<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.26<br>AA 18pt <sup>2</sup> | Ratio: 3.03<br>AA 18pt <sup>2</sup> | Ratio: 2.13<br>Failed <sup>5</sup>                      | Ratio: 1.55<br>Failed <sup>5</sup>                      | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 1.03<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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