

# Converting Colors - WCAG Matrix

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

|             | Hex(23FADD)                                             | Hex(00DDC1)                                             | Hex(00C0A6)                                             | Hex(00A48C)                                             | Hex(008973)                                             | Hex(006F5A)                                             | Hex(005543)                                             | Hex(003C2D)                                             | Hex(002618)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(23FADD) |                                                         | Ratio: 1.30<br>Failed <sup>5</sup>                      | Ratio: 1.74<br>Failed <sup>5</sup>                      | Ratio: 2.36<br>Failed <sup>5</sup>                      | Ratio: 3.27<br>AA 18pt <sup>2</sup>                     | Ratio: 4.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 9.38<br>Passed <sup>6</sup>                      | Ratio: 12.24<br>Passed <sup>6</sup>                     | Ratio: 15.79<br>Passed <sup>6</sup>                     |
| Hex(00DDC1) | Ratio: 1.30<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.81<br>Failed <sup>5</sup>                      | Ratio: 2.51<br>Failed <sup>5</sup>                      | Ratio: 3.54<br>AA 18pt <sup>2</sup>                     | Ratio: 5.09<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.19<br>Passed <sup>6</sup>                      | Ratio: 9.39<br>Passed <sup>6</sup>                      | Ratio: 12.11<br>Passed <sup>6</sup>                     |
| Hex(00C0A6) | Ratio: 1.74<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>                      | Ratio: 2.66<br>Failed <sup>5</sup>                      | Ratio: 3.82<br>AA 18pt <sup>2</sup>                     | Ratio: 5.40<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.04<br>Passed <sup>6</sup>                      | Ratio: 9.09<br>Passed <sup>6</sup>                      |
| Hex(00A48C) | Ratio: 2.36<br>Failed <sup>5</sup>                      | Ratio: 1.81<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: 2.81<br>Failed <sup>5</sup>                      | Ratio: 3.97<br>AA 18pt <sup>2</sup>                     | Ratio: 5.18<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(008973) | Ratio: 3.27<br>AA 18pt <sup>2</sup>                     | Ratio: 2.51<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 2.87<br>Failed <sup>5</sup>                      | Ratio: 3.74<br>AA 18pt <sup>2</sup>                     | Ratio: 4.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(006F5A) | Ratio: 4.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.54<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: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 3.42<br>AA 18pt <sup>2</sup>                     |
| Hex(005543) | Ratio: 6.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.09<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.82<br>AA 18pt <sup>2</sup>                     | Ratio: 2.81<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 2.38<br>Failed <sup>5</sup>                      |
| Hex(003C2D) | Ratio: 9.38<br>Passed <sup>6</sup>                      | Ratio: 7.19<br>Passed <sup>6</sup>                      | Ratio: 5.40<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.97<br>AA 18pt <sup>2</sup>                     | Ratio: 2.87<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.68<br>Failed <sup>5</sup>                      |
| Hex(002618) | Ratio: 12.24<br>Passed <sup>6</sup>                     | Ratio: 9.39<br>Passed <sup>6</sup>                      | Ratio: 7.04<br>Passed <sup>6</sup>                      | Ratio: 5.18<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.74<br>AA 18pt <sup>2</sup>                     | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 1.31<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.29<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 15.79<br>Passed <sup>6</sup>                     | Ratio: 12.11<br>Passed <sup>6</sup>                     | Ratio: 9.09<br>Passed <sup>6</sup>                      | Ratio: 6.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.42<br>AA 18pt <sup>2</sup>                     | Ratio: 2.38<br>Failed <sup>5</sup>                      | Ratio: 1.68<br>Failed <sup>5</sup>                      | Ratio: 1.29<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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