

# Converting Colors - WCAG Matrix

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

|             | Hex(F0FFFA)                                             | Hex(D3E2DE)                                             | Hex(B8C6C2)                                             | Hex(9DABA7)                                             | Hex(83918C)                                             | Hex(697773)                                             | Hex(515E5A)                                             | Hex(3A4743)                                             | Hex(24302D)                                             | Hex(101B18)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(F0FFFA) |                                                         | Ratio: 1.30<br>Failed <sup>5</sup>                      | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 2.31<br>Failed <sup>5</sup>                      | Ratio: 3.19<br>AA 18pt <sup>2</sup>                     | Ratio: 4.54<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.58<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 9.43<br>Passed <sup>6</sup>                      | Ratio: 13.28<br>Passed <sup>6</sup>                     | Ratio: 17.11<br>Passed <sup>6</sup>                     |
| Hex(D3E2DE) | Ratio: 1.30<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.78<br>Failed <sup>5</sup>                      | Ratio: 2.46<br>Failed <sup>5</sup>                      | Ratio: 3.50<br>AA 18pt <sup>2</sup>                     | Ratio: 5.07<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.26<br>Passed <sup>6</sup>                      | Ratio: 10.23<br>Passed <sup>6</sup>                     | Ratio: 13.17<br>Passed <sup>6</sup>                     |
| Hex(B8C6C2) | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.86<br>Failed <sup>5</sup>                      | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 3.84<br>AA 18pt <sup>2</sup>                     | Ratio: 5.50<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.75<br>Passed <sup>6</sup>                      | Ratio: 9.98<br>Passed <sup>6</sup>                      |
| Hex(9DABA7) | Ratio: 2.31<br>Failed <sup>5</sup>                      | Ratio: 1.78<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 2.85<br>Failed <sup>5</sup>                      | Ratio: 4.08<br>AA 18pt <sup>2</sup>                     | Ratio: 5.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.40<br>Passed <sup>6</sup>                      |
| Hex(83918C) | Ratio: 3.19<br>AA 18pt <sup>2</sup>                     | Ratio: 2.46<br>Failed <sup>5</sup>                      | Ratio: 1.86<br>Failed <sup>5</sup>                      | Ratio: 1.38<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 5.36<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(697773) | Ratio: 4.54<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.50<br>AA 18pt <sup>2</sup>                     | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 3.76<br>AA 18pt <sup>2</sup>                     |
| Hex(515E5A) | Ratio: 6.58<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.07<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.84<br>AA 18pt <sup>2</sup>                     | Ratio: 2.85<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 2.60<br>Failed <sup>5</sup>                      |
| Hex(3A4743) | Ratio: 9.43<br>Passed <sup>6</sup>                      | Ratio: 7.26<br>Passed <sup>6</sup>                      | Ratio: 5.50<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.08<br>AA 18pt <sup>2</sup>                     | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 1.81<br>Failed <sup>5</sup>                      |
| Hex(24302D) | Ratio: 13.28<br>Passed <sup>6</sup>                     | Ratio: 10.23<br>Passed <sup>6</sup>                     | Ratio: 7.75<br>Passed <sup>6</sup>                      | Ratio: 5.74<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: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.29<br>Failed <sup>5</sup>                      |
| Hex(101B18) | Ratio: 17.11<br>Passed <sup>6</sup>                     | Ratio: 13.17<br>Passed <sup>6</sup>                     | Ratio: 9.98<br>Passed <sup>6</sup>                      | Ratio: 7.40<br>Passed <sup>6</sup>                      | Ratio: 5.36<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.76<br>AA 18pt <sup>2</sup>                     | Ratio: 2.60<br>Failed <sup>5</sup>                      | Ratio: 1.81<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.

This PDF was generated on [convertingcolors.com](https://convertingcolors.com).