

# Converting Colors - WCAG Matrix

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

|             | Hex(B5ECE3)                                             | Hex(9AD0C7)                                             | Hex(7FB4AC)                                             | Hex(659991)                                             | Hex(4B7F78)                                             | Hex(32665F)                                             | Hex(184E47)                                             | Hex(003731)                                             | Hex(00211C)                                             | Hex(FFFFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(B5ECE3) |                                                         | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.78<br>Failed <sup>5</sup>                      | Ratio: 2.47<br>Failed <sup>5</sup>                      | Ratio: 3.49<br>AA 18pt <sup>2</sup>                     | Ratio: 5.02<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.24<br>Passed <sup>6</sup>                      | Ratio: 10.10<br>Passed <sup>6</sup>                     | Ratio: 13.02<br>Passed <sup>6</sup>                     | Ratio: 1.31<br>Failed <sup>5</sup>                      |
| Hex(9AD0C7) | Ratio: 1.32<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 3.82<br>AA 18pt <sup>2</sup>                     | Ratio: 5.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.68<br>Passed <sup>6</sup>                      | Ratio: 9.90<br>Passed <sup>6</sup>                      | Ratio: 1.72<br>Failed <sup>5</sup>                      |
| Hex(7FB4AC) | 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: 2.82<br>Failed <sup>5</sup>                      | Ratio: 4.07<br>AA 18pt <sup>2</sup>                     | Ratio: 5.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.31<br>Passed <sup>6</sup>                      | Ratio: 2.33<br>Failed <sup>5</sup>                      |
| Hex(659991) | Ratio: 2.47<br>Failed <sup>5</sup>                      | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 1.38<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 4.10<br>AA 18pt <sup>2</sup>                     | Ratio: 5.28<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.22<br>AA 18pt <sup>2</sup>                     |
| Hex(4B7F78) | Ratio: 3.49<br>AA 18pt <sup>2</sup>                     | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 2.90<br>Failed <sup>5</sup>                      | Ratio: 3.73<br>AA 18pt <sup>2</sup>                     | Ratio: 4.56<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(32665F) | Ratio: 5.02<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.82<br>AA 18pt <sup>2</sup>                     | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>                      | Ratio: 2.59<br>Failed <sup>5</sup>                      | Ratio: 6.56<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(184E47) | Ratio: 7.24<br>Passed <sup>6</sup>                      | Ratio: 5.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.07<br>AA 18pt <sup>2</sup>                     | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 9.46<br>Passed <sup>6</sup>                      |
| Hex(003731) | Ratio: 10.10<br>Passed <sup>6</sup>                     | Ratio: 7.68<br>Passed <sup>6</sup>                      | Ratio: 5.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.10<br>AA 18pt <sup>2</sup>                     | Ratio: 2.90<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 13.20<br>Passed <sup>6</sup>                     |
| Hex(00211C) | Ratio: 13.02<br>Passed <sup>6</sup>                     | Ratio: 9.90<br>Passed <sup>6</sup>                      | Ratio: 7.31<br>Passed <sup>6</sup>                      | Ratio: 5.28<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.73<br>AA 18pt <sup>2</sup>                     | Ratio: 2.59<br>Failed <sup>5</sup>                      | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 1.29<br>Failed <sup>5</sup>                      |                                                         | Ratio: 17.01<br>Passed <sup>6</sup>                     |
| Hex(FFFFFF) | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.72<br>Failed <sup>5</sup>                      | Ratio: 2.33<br>Failed <sup>5</sup>                      | Ratio: 3.22<br>AA 18pt <sup>2</sup>                     | Ratio: 4.56<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.56<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 9.46<br>Passed <sup>6</sup>                      | Ratio: 13.20<br>Passed <sup>6</sup>                     | Ratio: 17.01<br>Passed <sup>6</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).