

# Converting Colors - WCAG Matrix

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

|             | Hex(88E4E4)                                             | Hex(6BC7C8)                                             | Hex(4EACAC)                                             | Hex(2F9192)                                             | Hex(007778)                         | Hex(005E5F)                                             | Hex(004648)                                             | Hex(002F31)                                             | Hex(001B1C)                                             | Hex(000113)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(88E4E4) |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 2.55<br>Failed <sup>5</sup>                      | Ratio: 3.65<br>AA 18pt <sup>2</sup> | Ratio: 5.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.24<br>Passed <sup>6</sup>                      | Ratio: 9.83<br>Passed <sup>6</sup>                      | Ratio: 12.15<br>Passed <sup>6</sup>                     | Ratio: 14.07<br>Passed <sup>6</sup>                     |
| Hex(6BC7C8) | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>                      | Ratio: 2.72<br>Failed <sup>5</sup>  | Ratio: 3.84<br>AA 18pt <sup>2</sup>                     | Ratio: 5.40<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.33<br>Passed <sup>6</sup>                      | Ratio: 9.06<br>Passed <sup>6</sup>                      | Ratio: 10.48<br>Passed <sup>6</sup>                     |
| Hex(4EACAC) | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>  | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 3.97<br>AA 18pt <sup>2</sup>                     | Ratio: 5.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.66<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.71<br>Passed <sup>6</sup>                      |
| Hex(2F9192) | Ratio: 2.55<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 2.84<br>Failed <sup>5</sup>                      | Ratio: 3.85<br>AA 18pt <sup>2</sup>                     | Ratio: 4.76<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(007778) | Ratio: 3.65<br>AA 18pt <sup>2</sup>                     | Ratio: 2.72<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 2.69<br>Failed <sup>5</sup>                      | Ratio: 3.33<br>AA 18pt <sup>2</sup>                     | Ratio: 3.86<br>AA 18pt <sup>2</sup>                     |
| Hex(005E5F) | Ratio: 5.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.84<br>AA 18pt <sup>2</sup>                     | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 1.91<br>Failed <sup>5</sup>                      | Ratio: 2.36<br>Failed <sup>5</sup>                      | Ratio: 2.73<br>Failed <sup>5</sup>                      |
| Hex(004648) | Ratio: 7.24<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: 2.84<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>  | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.68<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>                      |
| Hex(002F31) | Ratio: 9.83<br>Passed <sup>6</sup>                      | Ratio: 7.33<br>Passed <sup>6</sup>                      | Ratio: 5.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.85<br>AA 18pt <sup>2</sup>                     | Ratio: 2.69<br>Failed <sup>5</sup>  | Ratio: 1.91<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.24<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |
| Hex(001B1C) | Ratio: 12.15<br>Passed <sup>6</sup>                     | Ratio: 9.06<br>Passed <sup>6</sup>                      | Ratio: 6.66<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.76<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.33<br>AA 18pt <sup>2</sup> | Ratio: 2.36<br>Failed <sup>5</sup>                      | Ratio: 1.68<br>Failed <sup>5</sup>                      | Ratio: 1.24<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.16<br>Failed <sup>5</sup>                      |
| Hex(000113) | Ratio: 14.07<br>Passed <sup>6</sup>                     | Ratio: 10.48<br>Passed <sup>6</sup>                     | Ratio: 7.71<br>Passed <sup>6</sup>                      | Ratio: 5.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.86<br>AA 18pt <sup>2</sup> | Ratio: 2.73<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 1.16<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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