

# Converting Colors - WCAG Matrix

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

|             | Hex(95F0FF)                                             | Hex(78E0E2)                                             | Hex(5AC4C6)                                             | Hex(3AA9AB)                                             | Hex(0B8E91)                                             | Hex(007477)                                             | Hex(005B5E)                                             | Hex(004347)                                             | Hex(002C30)                                             | Hex(00151C)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(95F0FF) |                                                         | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 2.39<br>Failed <sup>5</sup>                      | Ratio: 3.36<br>AA 18pt <sup>2</sup>                     | Ratio: 4.72<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> | Ratio: 9.38<br>Passed <sup>6</sup>                      | Ratio: 12.67<br>Passed <sup>6</sup>                     | Ratio: 15.81<br>Passed <sup>6</sup>                     |
| Hex(78E0E2) | Ratio: 1.31<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 2.56<br>Failed <sup>5</sup>                      | Ratio: 3.60<br>AA 18pt <sup>2</sup>                     | Ratio: 5.10<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.16<br>Passed <sup>6</sup>                      | Ratio: 9.66<br>Passed <sup>6</sup>                      | Ratio: 12.06<br>Passed <sup>6</sup>                     |
| Hex(5AC4C6) | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.92<br>Failed <sup>5</sup>                      | Ratio: 2.70<br>Failed <sup>5</sup>                      | Ratio: 3.82<br>AA 18pt <sup>2</sup>                     | Ratio: 5.36<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.23<br>Passed <sup>6</sup>                      | Ratio: 9.03<br>Passed <sup>6</sup>                      |
| Hex(3AA9AB) | Ratio: 2.39<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 2.80<br>Failed <sup>5</sup>                      | Ratio: 3.93<br>AA 18pt <sup>2</sup>                     | Ratio: 5.31<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(0B8E91) | Ratio: 3.36<br>AA 18pt <sup>2</sup>                     | Ratio: 2.56<br>Failed <sup>5</sup>                      | Ratio: 1.92<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 2.79<br>Failed <sup>5</sup>                      | Ratio: 3.77<br>AA 18pt <sup>2</sup>                     | Ratio: 4.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(007477) | Ratio: 4.72<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.60<br>AA 18pt <sup>2</sup>                     | Ratio: 2.70<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 2.68<br>Failed <sup>5</sup>                      | Ratio: 3.35<br>AA 18pt <sup>2</sup>                     |
| Hex(005B5E) | Ratio: 6.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.10<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.82<br>AA 18pt <sup>2</sup>                     | Ratio: 2.80<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>                      | Ratio: 2.36<br>Failed <sup>5</sup>                      |
| Hex(004347) | Ratio: 9.38<br>Passed <sup>6</sup>                      | Ratio: 7.16<br>Passed <sup>6</sup>                      | Ratio: 5.36<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.93<br>AA 18pt <sup>2</sup>                     | Ratio: 2.79<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.68<br>Failed <sup>5</sup>                      |
| Hex(002C30) | Ratio: 12.67<br>Passed <sup>6</sup>                     | Ratio: 9.66<br>Passed <sup>6</sup>                      | Ratio: 7.23<br>Passed <sup>6</sup>                      | Ratio: 5.31<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.77<br>AA 18pt <sup>2</sup>                     | Ratio: 2.68<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.25<br>Failed <sup>5</sup>                      |
| Hex(00151C) | Ratio: 15.81<br>Passed <sup>6</sup>                     | Ratio: 12.06<br>Passed <sup>6</sup>                     | Ratio: 9.03<br>Passed <sup>6</sup>                      | Ratio: 6.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.35<br>AA 18pt <sup>2</sup>                     | Ratio: 2.36<br>Failed <sup>5</sup>                      | Ratio: 1.68<br>Failed <sup>5</sup>                      | Ratio: 1.25<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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