

# Converting Colors - WCAG Matrix

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

Hex(00453D) Hex(85FFFF) Hex(00786C) Hex(009385) Hex(00AE9F) Hex(00CABA) Hex(00E7D6) Hex(31FFF2) Hex(60FFFF)

|             | Hex(00453D)   | Hex(85FFFF)   | Hex(00786C)   | Hex(009385)                         | Hex(00AE9F)                         | Hex(00CABA)   | Hex(00E7D6)   | Hex(31FFF2)                         | Hex(60FFFF)                         |
|-------------|---|---|---|-------------------------------------|-------------------------------------|---|---|-------------------------------------|-------------------------------------|
| Hex(00453D) |   | Ratio: 9.25<br>Passed <sup>6</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 2.87<br>Failed <sup>5</sup>  | Ratio: 3.94<br>AA 18pt <sup>2</sup> | Ratio: 5.29<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 8.71<br>Passed <sup>6</sup>  | Ratio: 8.99<br>Passed <sup>6</sup>  |
| Hex(85FFFF) | Ratio: 9.25<br>Passed <sup>6</sup>                      |   | Ratio: 4.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.22<br>AA 18pt <sup>2</sup> | Ratio: 2.35<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.06<br>Failed <sup>5</sup>  | Ratio: 1.03<br>Failed <sup>5</sup>  |
| Hex(00786C) | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 4.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |   | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.94<br>Failed <sup>5</sup>  | Ratio: 2.60<br>Failed <sup>5</sup>                      | Ratio: 3.43<br>AA 18pt <sup>2</sup>                     | Ratio: 4.28<br>AA 18pt <sup>2</sup> | Ratio: 4.42<br>AA 18pt <sup>2</sup> |
| Hex(009385) | Ratio: 2.87<br>Failed <sup>5</sup>                      | Ratio: 3.22<br>AA 18pt <sup>2</sup>                     | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 2.43<br>Failed <sup>5</sup>                      | Ratio: 3.03<br>AA 18pt <sup>2</sup> | Ratio: 3.13<br>AA 18pt <sup>2</sup> |
| Hex(00AE9F) | Ratio: 3.94<br>AA 18pt <sup>2</sup>                     | Ratio: 2.35<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 1.37<br>Failed <sup>5</sup>  |                                     | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.77<br>Failed <sup>5</sup>                      | Ratio: 2.21<br>Failed <sup>5</sup>  | Ratio: 2.28<br>Failed <sup>5</sup>  |
| Hex(00CABA) | Ratio: 5.29<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 2.60<br>Failed <sup>5</sup>                      | Ratio: 1.84<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>  |   | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.65<br>Failed <sup>5</sup>  | Ratio: 1.70<br>Failed <sup>5</sup>  |
| Hex(00E7D6) | Ratio: 6.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 3.43<br>AA 18pt <sup>2</sup>                     | Ratio: 2.43<br>Failed <sup>5</sup>  | Ratio: 1.77<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup>                      |   | Ratio: 1.25<br>Failed <sup>5</sup>  | Ratio: 1.29<br>Failed <sup>5</sup>  |
| Hex(31FFF2) | Ratio: 8.71<br>Passed <sup>6</sup>                      | Ratio: 1.06<br>Failed <sup>5</sup>                      | Ratio: 4.28<br>AA 18pt <sup>2</sup>                     | Ratio: 3.03<br>AA 18pt <sup>2</sup> | Ratio: 2.21<br>Failed <sup>5</sup>  | Ratio: 1.65<br>Failed <sup>5</sup>                      | Ratio: 1.25<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.03<br>Failed <sup>5</sup>  |
| Hex(60FFFF) | Ratio: 8.99<br>Passed <sup>6</sup>                      | Ratio: 1.03<br>Failed <sup>5</sup>                      | Ratio: 4.42<br>AA 18pt <sup>2</sup>                     | Ratio: 3.13<br>AA 18pt <sup>2</sup> | Ratio: 2.28<br>Failed <sup>5</sup>  | Ratio: 1.70<br>Failed <sup>5</sup>                      | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 1.03<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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