

# Converting Colors - WCAG Matrix

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

|             | Hex(006A40)                                             | Hex(2A8458)                                             | Hex(479E70)                         | Hex(63BA8A)                        | Hex(7ED6A4)                         | Hex(9AF2BF)                                             | Hex(B6FFDB)                                             | Hex(D3FFF8)                                             | Hex(F0FFFF)                                             | Hex(FFFFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(006A40) |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 2.85<br>Failed <sup>5</sup> | Ratio: 3.84<br>AA 18pt <sup>2</sup> | Ratio: 5.05<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.20<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(2A8458) | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.97<br>Failed <sup>5</sup> | Ratio: 2.65<br>Failed <sup>5</sup>  | Ratio: 3.49<br>AA 18pt <sup>2</sup>                     | Ratio: 4.03<br>AA 18pt <sup>2</sup>                     | Ratio: 4.28<br>AA 18pt <sup>2</sup>                     | Ratio: 4.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(479E70) | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 2.48<br>Failed <sup>5</sup>                      | Ratio: 2.87<br>Failed <sup>5</sup>                      | Ratio: 3.04<br>AA 18pt <sup>2</sup>                     | Ratio: 3.20<br>AA 18pt <sup>2</sup>                     | Ratio: 3.29<br>AA 18pt <sup>2</sup>                     |
| Hex(63BA8A) | Ratio: 2.85<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>  |                                    | Ratio: 1.35<br>Failed <sup>5</sup>  | Ratio: 1.77<br>Failed <sup>5</sup>                      | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 2.18<br>Failed <sup>5</sup>                      | Ratio: 2.29<br>Failed <sup>5</sup>                      | Ratio: 2.35<br>Failed <sup>5</sup>                      |
| Hex(7ED6A4) | Ratio: 3.84<br>AA 18pt <sup>2</sup>                     | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup> |                                     | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.52<br>Failed <sup>5</sup>                      | Ratio: 1.61<br>Failed <sup>5</sup>                      | Ratio: 1.70<br>Failed <sup>5</sup>                      | Ratio: 1.74<br>Failed <sup>5</sup>                      |
| Hex(9AF2BF) | Ratio: 5.05<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.49<br>AA 18pt <sup>2</sup>                     | Ratio: 2.48<br>Failed <sup>5</sup>  | Ratio: 1.77<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.16<br>Failed <sup>5</sup>                      | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>                      |
| Hex(B6FFDB) | Ratio: 5.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.03<br>AA 18pt <sup>2</sup>                     | Ratio: 2.87<br>Failed <sup>5</sup>  | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup>  | Ratio: 1.16<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.06<br>Failed <sup>5</sup>                      | Ratio: 1.12<br>Failed <sup>5</sup>                      | Ratio: 1.15<br>Failed <sup>5</sup>                      |
| Hex(D3FFF8) | Ratio: 6.20<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.28<br>AA 18pt <sup>2</sup>                     | Ratio: 3.04<br>AA 18pt <sup>2</sup> | Ratio: 2.18<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup>  | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 1.06<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.05<br>Failed <sup>5</sup>                      | Ratio: 1.08<br>Failed <sup>5</sup>                      |
| Hex(F0FFFF) | Ratio: 6.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.20<br>AA 18pt <sup>2</sup> | Ratio: 2.29<br>Failed <sup>5</sup> | Ratio: 1.70<br>Failed <sup>5</sup>  | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 1.12<br>Failed <sup>5</sup>                      | Ratio: 1.05<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.03<br>Failed <sup>5</sup>                      |
| Hex(FFFFFF) | Ratio: 6.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.29<br>AA 18pt <sup>2</sup> | Ratio: 2.35<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup>  | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.15<br>Failed <sup>5</sup>                      | Ratio: 1.08<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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