

# Converting Colors - WCAG Matrix

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

|             | Hex(495E4F)                                             | Hex(617767)                                             | Hex(7A9180)                         | Hex(93AB9A)                        | Hex(AEC7B5)                         | Hex(CAE3D1)                                             | Hex(E6FFED)                                             | Hex(FFFFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(495E4F) |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 2.85<br>Failed <sup>5</sup> | Ratio: 3.88<br>AA 18pt <sup>2</sup> | Ratio: 5.14<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.01<br>Passed <sup>6</sup>                      |
| Hex(617767) | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 2.68<br>Failed <sup>5</sup>  | Ratio: 3.55<br>AA 18pt <sup>2</sup>                     | Ratio: 4.58<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(7A9180) | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 2.49<br>Failed <sup>5</sup>                      | Ratio: 3.21<br>AA 18pt <sup>2</sup>                     | Ratio: 3.39<br>AA 18pt <sup>2</sup>                     |
| Hex(93AB9A) | Ratio: 2.85<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.38<br>Failed <sup>5</sup>  |                                    | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.81<br>Failed <sup>5</sup>                      | Ratio: 2.33<br>Failed <sup>5</sup>                      | Ratio: 2.46<br>Failed <sup>5</sup>                      |
| Hex(AEC7B5) | Ratio: 3.88<br>AA 18pt <sup>2</sup>                     | Ratio: 2.68<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup> |                                     | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 1.80<br>Failed <sup>5</sup>                      |
| Hex(CAE3D1) | Ratio: 5.14<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.55<br>AA 18pt <sup>2</sup>                     | Ratio: 2.49<br>Failed <sup>5</sup>  | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |
| Hex(E6FFED) | Ratio: 6.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.58<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.21<br>AA 18pt <sup>2</sup> | Ratio: 2.33<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup>  | Ratio: 1.29<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.06<br>Failed <sup>5</sup>                      |
| Hex(FFFFFF) | Ratio: 7.01<br>Passed <sup>6</sup>                      | Ratio: 4.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.39<br>AA 18pt <sup>2</sup> | Ratio: 2.46<br>Failed <sup>5</sup> | Ratio: 1.80<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.06<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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