

# Converting Colors - WCAG Matrix

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

|             | Hex(695D81)                         | Hex(726A81)                         | Hex(7A7781)                        | Hex(838481)                        | Hex(8B9181)                        | Hex(949D81)                        | Hex(9DAA81)                        | Hex(A5B781)                        | Hex(AEC481)                         | Hex(B6D181)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(695D81) |                                     | Ratio: 1.18<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.60<br>Failed <sup>5</sup> | Ratio: 1.86<br>Failed <sup>5</sup> | Ratio: 2.12<br>Failed <sup>5</sup> | Ratio: 2.44<br>Failed <sup>5</sup> | Ratio: 2.78<br>Failed <sup>5</sup> | Ratio: 3.16<br>AA 18pt <sup>2</sup> | Ratio: 3.57<br>AA 18pt <sup>2</sup> |
| Hex(726A81) | Ratio: 1.18<br>Failed <sup>5</sup>  |                                     | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 2.08<br>Failed <sup>5</sup> | Ratio: 2.37<br>Failed <sup>5</sup> | Ratio: 2.69<br>Failed <sup>5</sup>  | Ratio: 3.04<br>AA 18pt <sup>2</sup> |
| Hex(7A7781) | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.17<br>Failed <sup>5</sup>  |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 2.30<br>Failed <sup>5</sup>  | Ratio: 2.60<br>Failed <sup>5</sup>  |
| Hex(838481) | Ratio: 1.60<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.17<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 1.97<br>Failed <sup>5</sup>  | Ratio: 2.23<br>Failed <sup>5</sup>  |
| Hex(8B9181) | Ratio: 1.86<br>Failed <sup>5</sup>  | Ratio: 1.58<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.70<br>Failed <sup>5</sup>  | Ratio: 1.92<br>Failed <sup>5</sup>  |
| Hex(949D81) | Ratio: 2.12<br>Failed <sup>5</sup>  | Ratio: 1.81<br>Failed <sup>5</sup>  | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup>  | Ratio: 1.68<br>Failed <sup>5</sup>  |
| Hex(9DAA81) | Ratio: 2.44<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 1.46<br>Failed <sup>5</sup>  |
| Hex(A5B781) | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 2.37<br>Failed <sup>5</sup>  | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.14<br>Failed <sup>5</sup>  | Ratio: 1.28<br>Failed <sup>5</sup>  |
| Hex(AEC481) | Ratio: 3.16<br>AA 18pt <sup>2</sup> | Ratio: 2.69<br>Failed <sup>5</sup>  | Ratio: 2.30<br>Failed <sup>5</sup> | Ratio: 1.97<br>Failed <sup>5</sup> | Ratio: 1.70<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |                                     | Ratio: 1.13<br>Failed <sup>5</sup>  |
| Hex(B6D181) | Ratio: 3.57<br>AA 18pt <sup>2</sup> | Ratio: 3.04<br>AA 18pt <sup>2</sup> | Ratio: 2.60<br>Failed <sup>5</sup> | Ratio: 2.23<br>Failed <sup>5</sup> | Ratio: 1.92<br>Failed <sup>5</sup> | Ratio: 1.68<br>Failed <sup>5</sup> | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.13<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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