

# Converting Colors - WCAG Matrix

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

|             | Hex(561497)                         | Hex(5D2397)                         | Hex(653297)                         | Hex(6C4197)                        | Hex(745097)                        | Hex(7B6097)                        | Hex(836F97)                        | Hex(8A7E97)                        | Hex(928D97)                         | Hex(999C97)                         |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(561497) |                                     | Ratio: 1.11<br>Failed <sup>5</sup>  | Ratio: 1.26<br>Failed <sup>5</sup>  | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 1.72<br>Failed <sup>5</sup> | Ratio: 2.04<br>Failed <sup>5</sup> | Ratio: 2.41<br>Failed <sup>5</sup> | Ratio: 2.84<br>Failed <sup>5</sup> | Ratio: 3.34<br>AA 18pt <sup>2</sup> | Ratio: 3.89<br>AA 18pt <sup>2</sup> |
| Hex(5D2397) | Ratio: 1.11<br>Failed <sup>5</sup>  |                                     | Ratio: 1.14<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 2.18<br>Failed <sup>5</sup> | Ratio: 2.56<br>Failed <sup>5</sup> | Ratio: 3.01<br>AA 18pt <sup>2</sup> | Ratio: 3.51<br>AA 18pt <sup>2</sup> |
| Hex(653297) | Ratio: 1.26<br>Failed <sup>5</sup>  | Ratio: 1.14<br>Failed <sup>5</sup>  |                                     | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup> | Ratio: 2.24<br>Failed <sup>5</sup> | Ratio: 2.64<br>Failed <sup>5</sup>  | Ratio: 3.08<br>AA 18pt <sup>2</sup> |
| Hex(6C4197) | Ratio: 1.46<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 1.16<br>Failed <sup>5</sup>  |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.94<br>Failed <sup>5</sup> | Ratio: 2.28<br>Failed <sup>5</sup>  | Ratio: 2.66<br>Failed <sup>5</sup>  |
| Hex(745097) | Ratio: 1.72<br>Failed <sup>5</sup>  | Ratio: 1.55<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.17<br>Failed <sup>5</sup> |                                    | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.94<br>Failed <sup>5</sup>  | Ratio: 2.26<br>Failed <sup>5</sup>  |
| Hex(7B6097) | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup>  | Ratio: 1.61<br>Failed <sup>5</sup>  | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> |                                    | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.64<br>Failed <sup>5</sup>  | Ratio: 1.91<br>Failed <sup>5</sup>  |
| Hex(836F97) | Ratio: 2.41<br>Failed <sup>5</sup>  | Ratio: 2.18<br>Failed <sup>5</sup>  | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> |                                    | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup>  | Ratio: 1.61<br>Failed <sup>5</sup>  |
| Hex(8A7E97) | Ratio: 2.84<br>Failed <sup>5</sup>  | Ratio: 2.56<br>Failed <sup>5</sup>  | Ratio: 2.24<br>Failed <sup>5</sup>  | Ratio: 1.94<br>Failed <sup>5</sup> | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> |                                    | Ratio: 1.18<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup>  |
| Hex(928D97) | Ratio: 3.34<br>AA 18pt <sup>2</sup> | Ratio: 3.01<br>AA 18pt <sup>2</sup> | Ratio: 2.64<br>Failed <sup>5</sup>  | Ratio: 2.28<br>Failed <sup>5</sup> | Ratio: 1.94<br>Failed <sup>5</sup> | Ratio: 1.64<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> |                                     | Ratio: 1.17<br>Failed <sup>5</sup>  |
| Hex(999C97) | Ratio: 3.89<br>AA 18pt <sup>2</sup> | Ratio: 3.51<br>AA 18pt <sup>2</sup> | Ratio: 3.08<br>AA 18pt <sup>2</sup> | Ratio: 2.66<br>Failed <sup>5</sup> | Ratio: 2.26<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.17<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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