

# Converting Colors - WCAG Matrix

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

|             | Hex(143660)                        | Hex(1E3B60)                        | Hex(274160)                        | Hex(314660)                        | Hex(3A4B60)                        | Hex(445160)                        | Hex(4E5660)                        | Hex(575B60)                        | Hex(616060)                        | Hex(6A6660)                        |
|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Hex(143660) |                                    | Ratio: 1.07<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.64<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 1.94<br>Failed <sup>5</sup> | Ratio: 2.13<br>Failed <sup>5</sup> |
| Hex(1E3B60) | Ratio: 1.07<br>Failed <sup>5</sup> |                                    | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup> |
| Hex(274160) | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |                                    | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> |
| Hex(314660) | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> |                                    | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> |
| Hex(3A4B60) | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> |                                    | Ratio: 1.10<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> |
| Hex(445160) | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> |                                    | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> |
| Hex(4E5660) | Ratio: 1.64<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |                                    | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> |
| Hex(575B60) | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |                                    | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> |
| Hex(616060) | Ratio: 1.94<br>Failed <sup>5</sup> | Ratio: 1.81<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |                                    | Ratio: 1.10<br>Failed <sup>5</sup> |
| Hex(6A6660) | Ratio: 2.13<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.10<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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