

# Converting Colors - WCAG Matrix

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

|             | Hex(5C7180)                         | Hex(445966)                        | Hex(2C424E)                        | Hex(162C38)                        | Hex(001722)                         | Hex(00000B)                         | Hex(000000)                         |
|-------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(5C7180) |                                     | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 2.07<br>Failed <sup>5</sup> | Ratio: 2.84<br>Failed <sup>5</sup> | Ratio: 3.60<br>AA 18pt <sup>2</sup> | Ratio: 4.11<br>AA 18pt <sup>2</sup> | Ratio: 4.13<br>AA 18pt <sup>2</sup> |
| Hex(445966) | Ratio: 1.44<br>Failed <sup>5</sup>  |                                    | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.98<br>Failed <sup>5</sup> | Ratio: 2.50<br>Failed <sup>5</sup>  | Ratio: 2.85<br>Failed <sup>5</sup>  | Ratio: 2.87<br>Failed <sup>5</sup>  |
| Hex(2C424E) | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 1.44<br>Failed <sup>5</sup> |                                    | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup>  | Ratio: 1.99<br>Failed <sup>5</sup>  | Ratio: 2.00<br>Failed <sup>5</sup>  |
| Hex(162C38) | Ratio: 2.84<br>Failed <sup>5</sup>  | Ratio: 1.98<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup> |                                    | Ratio: 1.27<br>Failed <sup>5</sup>  | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 1.45<br>Failed <sup>5</sup>  |
| Hex(001722) | Ratio: 3.60<br>AA 18pt <sup>2</sup> | Ratio: 2.50<br>Failed <sup>5</sup> | Ratio: 1.74<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> |                                     | Ratio: 1.14<br>Failed <sup>5</sup>  | Ratio: 1.15<br>Failed <sup>5</sup>  |
| Hex(00000B) | Ratio: 4.11<br>AA 18pt <sup>2</sup> | Ratio: 2.85<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup>  |                                     | Ratio: 1.00<br>Failed <sup>5</sup>  |
| Hex(000000) | Ratio: 4.13<br>AA 18pt <sup>2</sup> | Ratio: 2.87<br>Failed <sup>5</sup> | Ratio: 2.00<br>Failed <sup>5</sup> | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup>  | Ratio: 1.00<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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