

# Converting Colors - WCAG Matrix

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

|             | Hex(5C9999)                                             | Hex(427F7F)                                             | Hex(266666)                         | Hex(034E4E)                        | Hex(003637)                         | Hex(002122)                                             | Hex(00000C)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(5C9999) |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 2.94<br>Failed <sup>5</sup> | Ratio: 4.09<br>AA 18pt <sup>2</sup> | Ratio: 5.22<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.44<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.47<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(427F7F) | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup> | Ratio: 2.89<br>Failed <sup>5</sup>  | Ratio: 3.69<br>AA 18pt <sup>2</sup>                     | Ratio: 4.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.57<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(266666) | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 2.56<br>Failed <sup>5</sup>                      | Ratio: 3.16<br>AA 18pt <sup>2</sup>                     | Ratio: 3.17<br>AA 18pt <sup>2</sup>                     |
| Hex(034E4E) | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>  |                                    | Ratio: 1.39<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup>                      | Ratio: 2.19<br>Failed <sup>5</sup>                      | Ratio: 2.20<br>Failed <sup>5</sup>                      |
| Hex(003637) | Ratio: 4.09<br>AA 18pt <sup>2</sup>                     | Ratio: 2.89<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 1.39<br>Failed <sup>5</sup> |                                     | Ratio: 1.28<br>Failed <sup>5</sup>                      | Ratio: 1.57<br>Failed <sup>5</sup>                      | Ratio: 1.58<br>Failed <sup>5</sup>                      |
| Hex(002122) | Ratio: 5.22<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.69<br>AA 18pt <sup>2</sup>                     | Ratio: 2.56<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 1.24<br>Failed <sup>5</sup>                      |
| Hex(00000C) | Ratio: 6.44<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.16<br>AA 18pt <sup>2</sup> | Ratio: 2.19<br>Failed <sup>5</sup> | Ratio: 1.57<br>Failed <sup>5</sup>  | Ratio: 1.23<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.01<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 6.47<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.57<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.17<br>AA 18pt <sup>2</sup> | Ratio: 2.20<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup>  | Ratio: 1.24<br>Failed <sup>5</sup>                      | Ratio: 1.01<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.

This PDF was generated on [convertingcolors.com](https://convertingcolors.com).