

# Converting Colors - WCAG Matrix

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

|             | Hex(8A9BA3)                                             | Hex(708189)                                             | Hex(58686F)                         | Hex(405057)                        | Hex(2A3940)                         | Hex(14242A)                                             | Hex(000E16)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(8A9BA3) |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 2.92<br>Failed <sup>5</sup> | Ratio: 4.15<br>AA 18pt <sup>2</sup> | Ratio: 5.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.79<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.30<br>Passed <sup>6</sup>                      |
| Hex(708189) | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup> | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 3.95<br>AA 18pt <sup>2</sup>                     | Ratio: 4.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.19<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(58686F) | Ratio: 2.01<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 2.76<br>Failed <sup>5</sup>                      | Ratio: 3.37<br>AA 18pt <sup>2</sup>                     | Ratio: 3.62<br>AA 18pt <sup>2</sup>                     |
| Hex(405057) | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                    | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.90<br>Failed <sup>5</sup>                      | Ratio: 2.33<br>Failed <sup>5</sup>                      | Ratio: 2.50<br>Failed <sup>5</sup>                      |
| Hex(2A3940) | Ratio: 4.15<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 1.42<br>Failed <sup>5</sup> |                                     | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.64<br>Failed <sup>5</sup>                      | Ratio: 1.76<br>Failed <sup>5</sup>                      |
| Hex(14242A) | Ratio: 5.55<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.95<br>AA 18pt <sup>2</sup>                     | Ratio: 2.76<br>Failed <sup>5</sup>  | Ratio: 1.90<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.22<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>                      |
| Hex(000E16) | Ratio: 6.79<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.37<br>AA 18pt <sup>2</sup> | Ratio: 2.33<br>Failed <sup>5</sup> | Ratio: 1.64<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup>                      |                                                         |                                                         |
| Hex(000000) | Ratio: 7.30<br>Passed <sup>6</sup>                      | Ratio: 5.19<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.62<br>AA 18pt <sup>2</sup> | Ratio: 2.50<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup>  | Ratio: 1.32<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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