

# Converting Colors - WCAG Matrix

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

|             | Hex(389294)                                             | Hex(13787A)                                             | Hex(005F62)                        | Hex(00464A)                         | Hex(003033)                         | Hex(001C1E)                                             | Hex(FFFFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(389294) |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup> | Ratio: 2.89<br>Failed <sup>5</sup>  | Ratio: 3.88<br>AA 18pt <sup>2</sup> | Ratio: 4.82<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.68<br>AA 18pt <sup>2</sup>                     |
| Hex(13787A) | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup> | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.72<br>Failed <sup>5</sup>  | Ratio: 3.37<br>AA 18pt <sup>2</sup>                     | Ratio: 5.26<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(005F62) | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                    | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 2.37<br>Failed <sup>5</sup>                      | Ratio: 7.46<br>Passed <sup>6</sup>                      |
| Hex(00464A) | Ratio: 2.89<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup> |                                     | Ratio: 1.34<br>Failed <sup>5</sup>  | Ratio: 1.67<br>Failed <sup>5</sup>                      | Ratio: 10.63<br>Passed <sup>6</sup>                     |
| Hex(003033) | Ratio: 3.88<br>AA 18pt <sup>2</sup>                     | Ratio: 2.72<br>Failed <sup>5</sup>                      | Ratio: 1.91<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup>  |                                     | Ratio: 1.24<br>Failed <sup>5</sup>                      | Ratio: 14.28<br>Passed <sup>6</sup>                     |
| Hex(001C1E) | Ratio: 4.82<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.37<br>AA 18pt <sup>2</sup>                     | Ratio: 2.37<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup>  | Ratio: 1.24<br>Failed <sup>5</sup>  |                                                         | Ratio: 17.72<br>Passed <sup>6</sup>                     |
| Hex(FFFFFF) | Ratio: 3.68<br>AA 18pt <sup>2</sup>                     | Ratio: 5.26<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.46<br>Passed <sup>6</sup> | Ratio: 10.63<br>Passed <sup>6</sup> | Ratio: 14.28<br>Passed <sup>6</sup> | Ratio: 17.72<br>Passed <sup>6</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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