

# Converting Colors - WCAG Matrix

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

|             | Hex(8B8EA3)                                             | Hex(717489)                                             | Hex(595C70)                         | Hex(414457)                        | Hex(2A2E40)                         | Hex(151A2A)                                             | Hex(000016)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(8B8EA3) |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 2.97<br>Failed <sup>5</sup> | Ratio: 4.16<br>AA 18pt <sup>2</sup> | Ratio: 5.36<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.42<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.50<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(717489) | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup> | Ratio: 2.92<br>Failed <sup>5</sup>  | Ratio: 3.76<br>AA 18pt <sup>2</sup>                     | Ratio: 4.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.56<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(595C70) | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 2.63<br>Failed <sup>5</sup>                      | Ratio: 3.15<br>AA 18pt <sup>2</sup>                     | Ratio: 3.19<br>AA 18pt <sup>2</sup>                     |
| Hex(414457) | Ratio: 2.97<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.46<br>Failed <sup>5</sup>  |                                    | Ratio: 1.40<br>Failed <sup>5</sup>  | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 2.16<br>Failed <sup>5</sup>                      | Ratio: 2.19<br>Failed <sup>5</sup>                      |
| Hex(2A2E40) | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 1.40<br>Failed <sup>5</sup> |                                     | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 1.55<br>Failed <sup>5</sup>                      | Ratio: 1.56<br>Failed <sup>5</sup>                      |
| Hex(151A2A) | Ratio: 5.36<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.76<br>AA 18pt <sup>2</sup>                     | Ratio: 2.63<br>Failed <sup>5</sup>  | Ratio: 1.80<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.20<br>Failed <sup>5</sup>                      | Ratio: 1.21<br>Failed <sup>5</sup>                      |
| Hex(000016) | Ratio: 6.42<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.15<br>AA 18pt <sup>2</sup> | Ratio: 2.16<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup>  | Ratio: 1.20<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.01<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 6.50<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.56<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.19<br>AA 18pt <sup>2</sup> | Ratio: 2.19<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup>  | Ratio: 1.21<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.

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