

# Converting Colors - WCAG Matrix

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

|             | Hex(639E4F)                                             | Hex(4A8538)                                             | Hex(2E6B1F)                         | Hex(125205)                        | Hex(003B00)                         | Hex(002600)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(639E4F) |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.92<br>Failed <sup>5</sup> | Ratio: 4.02<br>AA 18pt <sup>2</sup> | Ratio: 5.12<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(4A8538) | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 2.89<br>Failed <sup>5</sup>  | Ratio: 3.68<br>AA 18pt <sup>2</sup>                     | Ratio: 4.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(2E6B1F) | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup>  | Ratio: 2.54<br>Failed <sup>5</sup>                      | Ratio: 3.24<br>AA 18pt <sup>2</sup>                     |
| Hex(125205) | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.10<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                    | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 2.23<br>Failed <sup>5</sup>                      |
| Hex(003B00) | Ratio: 4.02<br>AA 18pt <sup>2</sup>                     | Ratio: 2.89<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup> |                                     | Ratio: 1.27<br>Failed <sup>5</sup>                      | Ratio: 1.63<br>Failed <sup>5</sup>                      |
| Hex(002600) | Ratio: 5.12<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.68<br>AA 18pt <sup>2</sup>                     | Ratio: 2.54<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.28<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 6.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.24<br>AA 18pt <sup>2</sup> | Ratio: 2.23<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup>  | Ratio: 1.28<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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