

# Converting Colors - WCAG Matrix

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

**Hex(484E19) Hex(646652) Hex(4E1E19) Hex(323327) Hex(B3B3B3) Hex(333333)**

|             | Hex(484E19)                         | Hex(646652)                        | Hex(4E1E19)                                             | Hex(323327)                                             | Hex(B3B3B3)                                             | Hex(333333)                                             |
|-------------|-------------------------------------|------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(484E19) |                                     | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 4.21<br>AA 18pt <sup>2</sup>                     | Ratio: 1.43<br>Failed <sup>5</sup>                      |
| Hex(646652) | Ratio: 1.50<br>Failed <sup>5</sup>  |                                    | Ratio: 2.34<br>Failed <sup>5</sup>                      | Ratio: 2.18<br>Failed <sup>5</sup>                      | Ratio: 2.81<br>Failed <sup>5</sup>                      | Ratio: 2.14<br>Failed <sup>5</sup>                      |
| Hex(4E1E19) | Ratio: 1.56<br>Failed <sup>5</sup>  | Ratio: 2.34<br>Failed <sup>5</sup> |                                                         | Ratio: 1.08<br>Failed <sup>5</sup>                      | Ratio: 6.57<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.09<br>Failed <sup>5</sup>                      |
| Hex(323327) | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 2.18<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup>                      |                                                         | Ratio: 6.11<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.01<br>Failed <sup>5</sup>                      |
| Hex(B3B3B3) | Ratio: 4.21<br>AA 18pt <sup>2</sup> | Ratio: 2.81<br>Failed <sup>5</sup> | Ratio: 6.57<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.11<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 6.03<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(333333) | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.14<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup>                      | Ratio: 1.01<br>Failed <sup>5</sup>                      | Ratio: 6.03<br>AA <sup>1</sup><br>AAA 18pt <sup>4</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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