

# Converting Colors - WCAG Matrix

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

**Hex(4F4749) Hex(666363) Hex(4E474F) Hex(333131) Hex(B3B3B3) Hex(333333)**

|             | Hex(4F4749)                         | Hex(666363)                        | Hex(4E474F)                         | Hex(333131)                                             | Hex(B3B3B3)                                             | Hex(333333)                                             |
|-------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(4F4749) |                                     | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.00<br>Failed <sup>5</sup>  | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 4.30<br>AA 18pt <sup>2</sup>                     | Ratio: 1.40<br>Failed <sup>5</sup>                      |
| Hex(666363) | Ratio: 1.51<br>Failed <sup>5</sup>  |                                    | Ratio: 1.51<br>Failed <sup>5</sup>  | Ratio: 2.17<br>Failed <sup>5</sup>                      | Ratio: 2.84<br>Failed <sup>5</sup>                      | Ratio: 2.12<br>Failed <sup>5</sup>                      |
| Hex(4E474F) | Ratio: 1.00<br>Failed <sup>5</sup>  | Ratio: 1.51<br>Failed <sup>5</sup> |                                     | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 4.28<br>AA 18pt <sup>2</sup>                     | Ratio: 1.41<br>Failed <sup>5</sup>                      |
| Hex(333131) | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.17<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup>  |                                                         | Ratio: 6.17<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.02<br>Failed <sup>5</sup>                      |
| Hex(B3B3B3) | Ratio: 4.30<br>AA 18pt <sup>2</sup> | Ratio: 2.84<br>Failed <sup>5</sup> | Ratio: 4.28<br>AA 18pt <sup>2</sup> | Ratio: 6.17<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: 1.40<br>Failed <sup>5</sup>  | Ratio: 2.12<br>Failed <sup>5</sup> | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.02<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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