

# Converting Colors - WCAG Matrix

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

**Hex(6B5858) Hex(534141) Hex(3B2B2B) Hex(251616) Hex(0C0000) Hex(000000)**

|             | Hex(6B5858)                                         | Hex(534141)                                        | Hex(3B2B2B)                                        | Hex(251616)                                        | Hex(0C0000)                                         | Hex(000000)                                         |
|-------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| Hex(6B5858) |                                                     | Ratio: <a href="#">1.44</a><br>Failed <sup>5</sup> | Ratio: <a href="#">2.02</a><br>Failed <sup>5</sup> | Ratio: <a href="#">2.62</a><br>Failed <sup>5</sup> | Ratio: <a href="#">3.11</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">3.16</a><br>AA 18pt <sup>2</sup> |
| Hex(534141) | Ratio: <a href="#">1.44</a><br>Failed <sup>5</sup>  |                                                    | Ratio: <a href="#">1.40</a><br>Failed <sup>5</sup> | Ratio: <a href="#">1.83</a><br>Failed <sup>5</sup> | Ratio: <a href="#">2.17</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">2.20</a><br>Failed <sup>5</sup>  |
| Hex(3B2B2B) | Ratio: <a href="#">2.02</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.40</a><br>Failed <sup>5</sup> |                                                    | Ratio: <a href="#">1.30</a><br>Failed <sup>5</sup> | Ratio: <a href="#">1.54</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.57</a><br>Failed <sup>5</sup>  |
| Hex(251616) | Ratio: <a href="#">2.62</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.83</a><br>Failed <sup>5</sup> | Ratio: <a href="#">1.30</a><br>Failed <sup>5</sup> |                                                    | Ratio: <a href="#">1.19</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.21</a><br>Failed <sup>5</sup>  |
| Hex(0C0000) | Ratio: <a href="#">3.11</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">2.17</a><br>Failed <sup>5</sup> | Ratio: <a href="#">1.54</a><br>Failed <sup>5</sup> | Ratio: <a href="#">1.19</a><br>Failed <sup>5</sup> |                                                     | Ratio: <a href="#">1.02</a><br>Failed <sup>5</sup>  |
| Hex(000000) | Ratio: <a href="#">3.16</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">2.20</a><br>Failed <sup>5</sup> | Ratio: <a href="#">1.57</a><br>Failed <sup>5</sup> | Ratio: <a href="#">1.21</a><br>Failed <sup>5</sup> | Ratio: <a href="#">1.02</a><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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