

# Converting Colors - WCAG Matrix

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

**Hex(494B52) Hex(68696B) Hex(49524F) Hex(333436) Hex(B5B5B5) Hex(363636)**

|             | Hex(494B52)                                         | Hex(68696B)                                        | Hex(49524F)                                         | Hex(333436)                                                             | Hex(B5B5B5)                                                             | Hex(363636)                                                             |
|-------------|-----------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Hex(494B52) |                                                     | Ratio: <a href="#">1.58</a><br>Failed <sup>5</sup> | Ratio: <a href="#">1.08</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.43</a><br>Failed <sup>5</sup>                      | Ratio: <a href="#">4.25</a><br>AA 18pt <sup>2</sup>                     | Ratio: <a href="#">1.39</a><br>Failed <sup>5</sup>                      |
| Hex(68696B) | Ratio: <a href="#">1.58</a><br>Failed <sup>5</sup>  |                                                    | Ratio: <a href="#">1.47</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">2.27</a><br>Failed <sup>5</sup>                      | Ratio: <a href="#">2.68</a><br>Failed <sup>5</sup>                      | Ratio: <a href="#">2.20</a><br>Failed <sup>5</sup>                      |
| Hex(49524F) | Ratio: <a href="#">1.08</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.47</a><br>Failed <sup>5</sup> |                                                     | Ratio: <a href="#">1.54</a><br>Failed <sup>5</sup>                      | Ratio: <a href="#">3.93</a><br>AA 18pt <sup>2</sup>                     | Ratio: <a href="#">1.50</a><br>Failed <sup>5</sup>                      |
| Hex(333436) | Ratio: <a href="#">1.43</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">2.27</a><br>Failed <sup>5</sup> | Ratio: <a href="#">1.54</a><br>Failed <sup>5</sup>  |                                                                         | Ratio: <a href="#">6.08</a><br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: <a href="#">1.03</a><br>Failed <sup>5</sup>                      |
| Hex(B5B5B5) | Ratio: <a href="#">4.25</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">2.68</a><br>Failed <sup>5</sup> | Ratio: <a href="#">3.93</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">6.08</a><br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                                         | Ratio: <a href="#">5.89</a><br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(363636) | Ratio: <a href="#">1.39</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">2.20</a><br>Failed <sup>5</sup> | Ratio: <a href="#">1.50</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.03</a><br>Failed <sup>5</sup>                      | Ratio: <a href="#">5.89</a><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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