

# Converting Colors - WCAG Matrix

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

|             | Hex(450045)                                        | Hex(450745)                                        | Hex(450E45)                                        | Hex(451545)                                        | Hex(451C45)                                        | Hex(452245)                                        | Hex(452945)                                        | Hex(453045)                                        | Hex(453745)                                        | Hex(453E45)                                        |
|-------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Hex(450045) |                                                    | <a href="#">Ratio: 1.02</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.05</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.08</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.12</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.17</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.24</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.32</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.41</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.51</a><br>Failed <sup>5</sup> |
| Hex(450745) | <a href="#">Ratio: 1.02</a><br>Failed <sup>5</sup> |                                                    | <a href="#">Ratio: 1.02</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.06</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.10</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.14</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.21</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.29</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.38</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.48</a><br>Failed <sup>5</sup> |
| Hex(450E45) | <a href="#">Ratio: 1.05</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.02</a><br>Failed <sup>5</sup> |                                                    | <a href="#">Ratio: 1.03</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.07</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.12</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.18</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.26</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.34</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.45</a><br>Failed <sup>5</sup> |
| Hex(451545) | <a href="#">Ratio: 1.08</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.06</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.03</a><br>Failed <sup>5</sup> |                                                    | <a href="#">Ratio: 1.04</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.08</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.15</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.22</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.30</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.40</a><br>Failed <sup>5</sup> |
| Hex(451C45) | <a href="#">Ratio: 1.12</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.10</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.07</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.04</a><br>Failed <sup>5</sup> |                                                    | <a href="#">Ratio: 1.04</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.10</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.17</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.25</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.35</a><br>Failed <sup>5</sup> |
| Hex(452245) | <a href="#">Ratio: 1.17</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.14</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.12</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.08</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.04</a><br>Failed <sup>5</sup> |                                                    | <a href="#">Ratio: 1.06</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.12</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.20</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.29</a><br>Failed <sup>5</sup> |
| Hex(452945) | <a href="#">Ratio: 1.24</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.21</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.18</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.15</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.10</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.06</a><br>Failed <sup>5</sup> |                                                    | <a href="#">Ratio: 1.06</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.14</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.22</a><br>Failed <sup>5</sup> |
| Hex(453045) | <a href="#">Ratio: 1.32</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.29</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.26</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.22</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.17</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.12</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.06</a><br>Failed <sup>5</sup> |                                                    | <a href="#">Ratio: 1.07</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.15</a><br>Failed <sup>5</sup> |
| Hex(453745) | <a href="#">Ratio: 1.41</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.38</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.34</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.30</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.25</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.20</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.14</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.07</a><br>Failed <sup>5</sup> |                                                    | <a href="#">Ratio: 1.08</a><br>Failed <sup>5</sup> |
| Hex(453E45) | <a href="#">Ratio: 1.51</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.48</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.45</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.40</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.35</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.29</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.22</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.15</a><br>Failed <sup>5</sup> | <a href="#">Ratio: 1.08</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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