

# Converting Colors - WCAG Matrix

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

**Hex(8F4DFF) Hex(7829FF) Hex(E74DFF) Hex(777380) Hex(4700BF) Hex(180040)**

|             | Hex(8F4DFF)                                         | Hex(7829FF)                                         | Hex(E74DFF)                                                             | Hex(777380)                                         | Hex(4700BF)                                         | Hex(180040)                                                             |
|-------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------|
| Hex(8F4DFF) |                                                     | Ratio: <a href="#">1.31</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.48</a><br>Failed <sup>5</sup>                      | Ratio: <a href="#">1.03</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">2.31</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">4.20</a><br>AA 18pt <sup>2</sup>                     |
| Hex(7829FF) | Ratio: <a href="#">1.31</a><br>Failed <sup>5</sup>  |                                                     | Ratio: <a href="#">1.94</a><br>Failed <sup>5</sup>                      | Ratio: <a href="#">1.28</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.76</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">3.20</a><br>AA 18pt <sup>2</sup>                     |
| Hex(E74DFF) | Ratio: <a href="#">1.48</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.94</a><br>Failed <sup>5</sup>  |                                                                         | Ratio: <a href="#">1.52</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">3.42</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">6.20</a><br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(777380) | Ratio: <a href="#">1.03</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.28</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.52</a><br>Failed <sup>5</sup>                      |                                                     | Ratio: <a href="#">2.25</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">4.09</a><br>AA 18pt <sup>2</sup>                     |
| Hex(4700BF) | Ratio: <a href="#">2.31</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.76</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">3.42</a><br>AA 18pt <sup>2</sup>                     | Ratio: <a href="#">2.25</a><br>Failed <sup>5</sup>  |                                                     | Ratio: <a href="#">1.82</a><br>Failed <sup>5</sup>                      |
| Hex(180040) | Ratio: <a href="#">4.20</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">3.20</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">6.20</a><br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: <a href="#">4.09</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">1.82</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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