

# Converting Colors - WCAG Matrix

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

**Hex(D3D4FF) Hex(F2F3FF) Hex(D3FFFE) Hex(787880) Hex(000000) Hex(808080)**

|             | Hex(D3D4FF)                                         | Hex(F2F3FF)                                         | Hex(D3FFFE)                                         | Hex(787880)                                                             | Hex(000000)                                                             | Hex(808080)                                                             |
|-------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Hex(D3D4FF) |                                                     | Ratio: <a href="#">1.30</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.33</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">3.05</a><br>AA 18pt <sup>2</sup>                     | Ratio: <a href="#">14.63</a><br>Passed <sup>6</sup>                     | Ratio: <a href="#">2.75</a><br>Failed <sup>5</sup>                      |
| Hex(F2F3FF) | Ratio: <a href="#">1.30</a><br>Failed <sup>5</sup>  |                                                     | Ratio: <a href="#">1.02</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">3.97</a><br>AA 18pt <sup>2</sup>                     | Ratio: <a href="#">19.04</a><br>Passed <sup>6</sup>                     | Ratio: <a href="#">3.58</a><br>AA 18pt <sup>2</sup>                     |
| Hex(D3FFFE) | Ratio: <a href="#">1.33</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">1.02</a><br>Failed <sup>5</sup>  |                                                     | Ratio: <a href="#">4.07</a><br>AA 18pt <sup>2</sup>                     | Ratio: <a href="#">19.50</a><br>Passed <sup>6</sup>                     | Ratio: <a href="#">3.67</a><br>AA 18pt <sup>2</sup>                     |
| Hex(787880) | Ratio: <a href="#">3.05</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">3.97</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">4.07</a><br>AA 18pt <sup>2</sup> |                                                                         | Ratio: <a href="#">4.80</a><br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: <a href="#">1.11</a><br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: <a href="#">14.63</a><br>Passed <sup>6</sup> | Ratio: <a href="#">19.04</a><br>Passed <sup>6</sup> | Ratio: <a href="#">19.50</a><br>Passed <sup>6</sup> | Ratio: <a href="#">4.80</a><br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                                         | Ratio: <a href="#">5.32</a><br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(808080) | Ratio: <a href="#">2.75</a><br>Failed <sup>5</sup>  | Ratio: <a href="#">3.58</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">3.67</a><br>AA 18pt <sup>2</sup> | Ratio: <a href="#">1.11</a><br>Failed <sup>5</sup>                      | Ratio: <a href="#">5.32</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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