

# Converting Colors - WCAG Matrix

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

Hex(7FA8FF) Hex(6697FF) Hex(947FFF) Hex(737780) Hex(003DBF) Hex(001440)

|             | Hex(7FA8FF)                         | Hex(6697FF)                                             | Hex(947FFF)                                             | Hex(737780)                         | Hex(003DBF)                         | Hex(001440)                                             |
|-------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(7FA8FF) |                                     | Ratio: 1.20<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 3.70<br>AA 18pt <sup>2</sup> | Ratio: 7.62<br>Passed <sup>6</sup>                      |
| Hex(6697FF) | Ratio: 1.20<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.10<br>Failed <sup>5</sup>                      | Ratio: 1.59<br>Failed <sup>5</sup>  | Ratio: 3.07<br>AA 18pt <sup>2</sup> | Ratio: 6.33<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(947FFF) | Ratio: 1.33<br>Failed <sup>5</sup>  | Ratio: 1.10<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 5.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(737780) | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 1.59<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.93<br>Failed <sup>5</sup>  | Ratio: 3.99<br>AA 18pt <sup>2</sup>                     |
| Hex(003DBF) | Ratio: 3.70<br>AA 18pt <sup>2</sup> | Ratio: 3.07<br>AA 18pt <sup>2</sup>                     | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>  |                                     | Ratio: 2.06<br>Failed <sup>5</sup>                      |
| Hex(001440) | Ratio: 7.62<br>Passed <sup>6</sup>  | Ratio: 6.33<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.99<br>AA 18pt <sup>2</sup> | Ratio: 2.06<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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