

# Converting Colors - WCAG Matrix

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

**Hex(397AEF) Hex(176AFF) Hex(5139EF) Hex(6C7078) Hex(0042B8) Hex(001438)**

|             | Hex(397AEF)                                             | Hex(176AFF)                         | Hex(5139EF)                        | Hex(6C7078)                         | Hex(0042B8)                        | Hex(001438)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|------------------------------------|---------------------------------------------------------|
| Hex(397AEF) |                                                         | Ratio: 1.15<br>Failed <sup>5</sup>  | Ratio: 1.64<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup>  | Ratio: 2.11<br>Failed <sup>5</sup> | Ratio: 4.50<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(176AFF) | Ratio: 1.15<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.43<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 3.92<br>AA 18pt <sup>2</sup>                     |
| Hex(5139EF) | Ratio: 1.64<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>  |                                    | Ratio: 1.33<br>Failed <sup>5</sup>  | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 2.75<br>Failed <sup>5</sup>                      |
| Hex(6C7078) | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 1.07<br>Failed <sup>5</sup>  | Ratio: 1.33<br>Failed <sup>5</sup> |                                     | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 3.65<br>AA 18pt <sup>2</sup>                     |
| Hex(0042B8) | Ratio: 2.11<br>Failed <sup>5</sup>                      | Ratio: 1.84<br>Failed <sup>5</sup>  | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup>  |                                    | Ratio: 2.14<br>Failed <sup>5</sup>                      |
| Hex(001438) | Ratio: 4.50<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.92<br>AA 18pt <sup>2</sup> | Ratio: 2.75<br>Failed <sup>5</sup> | Ratio: 3.65<br>AA 18pt <sup>2</sup> | Ratio: 2.14<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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