

# Converting Colors - WCAG Matrix

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

Hex(B9CBEC) Hex(BDD4FF) Hex(C0B9EC) Hex(6A6E75) Hex(0040B5) Hex(001336)

|             | Hex(B9CBEC)                                             | Hex(BDD4FF)                                             | Hex(C0B9EC)                                             | Hex(6A6E75)                         | Hex(0040B5)                                             | Hex(001336)                         |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|
| Hex(B9CBEC) |                                                         | Ratio: 1.09<br>Failed <sup>5</sup>                      | Ratio: 1.13<br>Failed <sup>5</sup>                      | Ratio: 3.13<br>AA 18pt <sup>2</sup> | Ratio: 5.34<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 11.18<br>Passed <sup>6</sup> |
| Hex(BDD4FF) | Ratio: 1.09<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 3.42<br>AA 18pt <sup>2</sup> | Ratio: 5.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 12.23<br>Passed <sup>6</sup> |
| Hex(C0B9EC) | Ratio: 1.13<br>Failed <sup>5</sup>                      | Ratio: 1.23<br>Failed <sup>5</sup>                      |                                                         | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 4.75<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 9.94<br>Passed <sup>6</sup>  |
| Hex(6A6E75) | Ratio: 3.13<br>AA 18pt <sup>2</sup>                     | Ratio: 3.42<br>AA 18pt <sup>2</sup>                     | Ratio: 2.78<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 3.58<br>AA 18pt <sup>2</sup> |
| Hex(0040B5) | Ratio: 5.34<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.84<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.75<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.71<br>Failed <sup>5</sup>  |                                                         | Ratio: 2.09<br>Failed <sup>5</sup>  |
| Hex(001336) | Ratio: 11.18<br>Passed <sup>6</sup>                     | Ratio: 12.23<br>Passed <sup>6</sup>                     | Ratio: 9.94<br>Passed <sup>6</sup>                      | Ratio: 3.58<br>AA 18pt <sup>2</sup> | Ratio: 2.09<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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