

# Converting Colors - WCAG Matrix

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

**Hex(FF83B2) Hex(FF6BA3) Hex(83F1FF) Hex(807378) Hex(BF0049) Hex(400018)**

|             | Hex(FF83B2)                        | Hex(FF6BA3)                                             | Hex(83F1FF)                                             | Hex(807378)                         | Hex(BF0049)                                             | Hex(400018)                                             |
|-------------|------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(FF83B2) |                                    | Ratio: 1.16<br>Failed <sup>5</sup>                      | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>  | Ratio: 2.76<br>Failed <sup>5</sup>                      | Ratio: 7.42<br>Passed <sup>6</sup>                      |
| Hex(FF6BA3) | Ratio: 1.16<br>Failed <sup>5</sup> |                                                         | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 1.70<br>Failed <sup>5</sup>  | Ratio: 2.38<br>Failed <sup>5</sup>                      | Ratio: 6.40<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(83F1FF) | Ratio: 1.75<br>Failed <sup>5</sup> | Ratio: 2.03<br>Failed <sup>5</sup>                      |                                                         | Ratio: 3.45<br>AA 18pt <sup>2</sup> | Ratio: 4.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 12.99<br>Passed <sup>6</sup>                     |
| Hex(807378) | Ratio: 1.97<br>Failed <sup>5</sup> | Ratio: 1.70<br>Failed <sup>5</sup>                      | Ratio: 3.45<br>AA 18pt <sup>2</sup>                     |                                     | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 3.77<br>AA 18pt <sup>2</sup>                     |
| Hex(BF0049) | Ratio: 2.76<br>Failed <sup>5</sup> | Ratio: 2.38<br>Failed <sup>5</sup>                      | Ratio: 4.83<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.40<br>Failed <sup>5</sup>  |                                                         | Ratio: 2.69<br>Failed <sup>5</sup>                      |
| Hex(400018) | Ratio: 7.42<br>Passed <sup>6</sup> | Ratio: 6.40<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 12.99<br>Passed <sup>6</sup>                     | Ratio: 3.77<br>AA 18pt <sup>2</sup> | Ratio: 2.69<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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