

# Converting Colors - WCAG Matrix

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

Hex(FF87FB) Hex(FF70FA) Hex(FFC787) Hex(80737F) Hex(BF00B9) Hex(40003E)

|             | Hex(FF87FB)                        | Hex(FF70FA)                                             | Hex(FFC787)                         | Hex(80737F)                         | Hex(BF00B9)                         | Hex(40003E)                                             |
|-------------|------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(FF87FB) |                                    | Ratio: 1.13<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 2.16<br>Failed <sup>5</sup>  | Ratio: 2.58<br>Failed <sup>5</sup>  | Ratio: 7.85<br>Passed <sup>6</sup>                      |
| Hex(FF70FA) | Ratio: 1.13<br>Failed <sup>5</sup> |                                                         | Ratio: 1.54<br>Failed <sup>5</sup>  | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 2.29<br>Failed <sup>5</sup>  | Ratio: 6.95<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(FFC787) | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup>                      |                                     | Ratio: 2.94<br>Failed <sup>5</sup>  | Ratio: 3.52<br>AA 18pt <sup>2</sup> | Ratio: 10.70<br>Passed <sup>6</sup>                     |
| Hex(80737F) | Ratio: 2.16<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup>                      | Ratio: 2.94<br>Failed <sup>5</sup>  |                                     | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 3.63<br>AA 18pt <sup>2</sup>                     |
| Hex(BF00B9) | Ratio: 2.58<br>Failed <sup>5</sup> | Ratio: 2.29<br>Failed <sup>5</sup>                      | Ratio: 3.52<br>AA 18pt <sup>2</sup> | Ratio: 1.19<br>Failed <sup>5</sup>  |                                     | Ratio: 3.04<br>AA 18pt <sup>2</sup>                     |
| Hex(40003E) | Ratio: 7.85<br>Passed <sup>6</sup> | Ratio: 6.95<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 10.70<br>Passed <sup>6</sup> | Ratio: 3.63<br>AA 18pt <sup>2</sup> | Ratio: 3.04<br>AA 18pt <sup>2</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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