

# Converting Colors - WCAG Matrix

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

**Hex(CC0046) Hex(FFB3CD) Hex(8500CC) Hex(805261) Hex(000000) Hex(808080)**

|             | Hex(CC0046)                         | Hex(FFB3CD)                         | Hex(8500CC)                         | Hex(805261)                         | Hex(000000)                                             | Hex(808080)                                             |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(CC0046) |                                     | Ratio: 3.44<br>AA 18pt <sup>2</sup> | Ratio: 1.27<br>Failed <sup>5</sup>  | Ratio: 1.11<br>Failed <sup>5</sup>  | Ratio: 3.66<br>AA 18pt <sup>2</sup>                     | Ratio: 1.45<br>Failed <sup>5</sup>                      |
| Hex(FFB3CD) | Ratio: 3.44<br>AA 18pt <sup>2</sup> |                                     | Ratio: 4.39<br>AA 18pt <sup>2</sup> | Ratio: 3.82<br>AA 18pt <sup>2</sup> | Ratio: 12.58<br>Passed <sup>6</sup>                     | Ratio: 2.37<br>Failed <sup>5</sup>                      |
| Hex(8500CC) | Ratio: 1.27<br>Failed <sup>5</sup>  | Ratio: 4.39<br>AA 18pt <sup>2</sup> |                                     | Ratio: 1.15<br>Failed <sup>5</sup>  | Ratio: 2.87<br>Failed <sup>5</sup>                      | Ratio: 1.85<br>Failed <sup>5</sup>                      |
| Hex(805261) | Ratio: 1.11<br>Failed <sup>5</sup>  | Ratio: 3.82<br>AA 18pt <sup>2</sup> | Ratio: 1.15<br>Failed <sup>5</sup>  |                                     | Ratio: 3.30<br>AA 18pt <sup>2</sup>                     | Ratio: 1.61<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 3.66<br>AA 18pt <sup>2</sup> | Ratio: 12.58<br>Passed <sup>6</sup> | Ratio: 2.87<br>Failed <sup>5</sup>  | Ratio: 3.30<br>AA 18pt <sup>2</sup> |                                                         | Ratio: 5.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(808080) | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 2.37<br>Failed <sup>5</sup>  | Ratio: 1.85<br>Failed <sup>5</sup>  | Ratio: 1.61<br>Failed <sup>5</sup>  | Ratio: 5.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</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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