

# Converting Colors - WCAG Matrix

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

|             | Hex(D46ABA)                                             | Hex(B74F9F)                                             | Hex(9B3485)                         | Hex(7F156B)                        | Hex(640053)                         | Hex(4A003B)                                             | Hex(330026)                                             | Hex(0D000E)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(D46ABA) |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 2.96<br>Failed <sup>5</sup> | Ratio: 3.94<br>AA 18pt <sup>2</sup> | Ratio: 4.85<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.42<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.57<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(B74F9F) | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup> | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 3.42<br>AA 18pt <sup>2</sup>                     | Ratio: 3.96<br>AA 18pt <sup>2</sup>                     | Ratio: 4.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(9B3485) | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.93<br>Failed <sup>5</sup>  | Ratio: 2.38<br>Failed <sup>5</sup>                      | Ratio: 2.76<br>Failed <sup>5</sup>                      | Ratio: 3.15<br>AA 18pt <sup>2</sup>                     | Ratio: 3.22<br>AA 18pt <sup>2</sup>                     |
| Hex(7F156B) | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                    | Ratio: 1.33<br>Failed <sup>5</sup>  | Ratio: 1.64<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>                      | Ratio: 2.17<br>Failed <sup>5</sup>                      | Ratio: 2.22<br>Failed <sup>5</sup>                      |
| Hex(640053) | Ratio: 3.94<br>AA 18pt <sup>2</sup>                     | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>  | Ratio: 1.33<br>Failed <sup>5</sup> |                                     | Ratio: 1.23<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 1.63<br>Failed <sup>5</sup>                      | Ratio: 1.67<br>Failed <sup>5</sup>                      |
| Hex(4A003B) | Ratio: 4.85<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.42<br>AA 18pt <sup>2</sup>                     | Ratio: 2.38<br>Failed <sup>5</sup>  | Ratio: 1.64<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.16<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |
| Hex(330026) | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.96<br>AA 18pt <sup>2</sup>                     | Ratio: 2.76<br>Failed <sup>5</sup>  | Ratio: 1.90<br>Failed <sup>5</sup> | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 1.16<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.14<br>Failed <sup>5</sup>                      | Ratio: 1.17<br>Failed <sup>5</sup>                      |
| Hex(0D000E) | Ratio: 6.42<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.15<br>AA 18pt <sup>2</sup> | Ratio: 2.17<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.14<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.02<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 6.57<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.22<br>AA 18pt <sup>2</sup> | Ratio: 2.22<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.17<br>Failed <sup>5</sup>                      | Ratio: 1.02<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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