

# Converting Colors - WCAG Matrix

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

|             | Hex(FF1235)                                             | Hex(DE001F)                         | Hex(BC000A)                         | Hex(9C0000)                        | Hex(7B0001)                        | Hex(5B0003)                         | Hex(3C0003)                                             | Hex(160000)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(FF1235) |                                                         | Ratio: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.72<br>Failed <sup>5</sup>  | Ratio: 2.23<br>Failed <sup>5</sup> | Ratio: 2.93<br>Failed <sup>5</sup> | Ratio: 3.73<br>AA 18pt <sup>2</sup> | Ratio: 4.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.21<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(DE001F) | Ratio: 1.31<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 2.24<br>Failed <sup>5</sup> | Ratio: 2.85<br>Failed <sup>5</sup>  | Ratio: 3.46<br>AA 18pt <sup>2</sup>                     | Ratio: 3.99<br>AA 18pt <sup>2</sup>                     | Ratio: 4.13<br>AA 18pt <sup>2</sup>                     |
| Hex(BC000A) | Ratio: 1.72<br>Failed <sup>5</sup>                      | Ratio: 1.31<br>Failed <sup>5</sup>  |                                     | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 2.17<br>Failed <sup>5</sup>  | Ratio: 2.63<br>Failed <sup>5</sup>                      | Ratio: 3.04<br>AA 18pt <sup>2</sup>                     | Ratio: 3.14<br>AA 18pt <sup>2</sup>                     |
| Hex(9C0000) | Ratio: 2.23<br>Failed <sup>5</sup>                      | Ratio: 1.71<br>Failed <sup>5</sup>  | Ratio: 1.30<br>Failed <sup>5</sup>  |                                    | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.67<br>Failed <sup>5</sup>  | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 2.33<br>Failed <sup>5</sup>                      | Ratio: 2.41<br>Failed <sup>5</sup>                      |
| Hex(7B0001) | Ratio: 2.93<br>Failed <sup>5</sup>                      | Ratio: 2.24<br>Failed <sup>5</sup>  | Ratio: 1.71<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup> |                                    | Ratio: 1.27<br>Failed <sup>5</sup>  | Ratio: 1.54<br>Failed <sup>5</sup>                      | Ratio: 1.78<br>Failed <sup>5</sup>                      | Ratio: 1.84<br>Failed <sup>5</sup>                      |
| Hex(5B0003) | Ratio: 3.73<br>AA 18pt <sup>2</sup>                     | Ratio: 2.85<br>Failed <sup>5</sup>  | Ratio: 2.17<br>Failed <sup>5</sup>  | Ratio: 1.67<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> |                                     | Ratio: 1.21<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |
| Hex(3C0003) | Ratio: 4.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.46<br>AA 18pt <sup>2</sup> | Ratio: 2.63<br>Failed <sup>5</sup>  | Ratio: 2.02<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.21<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.15<br>Failed <sup>5</sup>                      | Ratio: 1.19<br>Failed <sup>5</sup>                      |
| Hex(160000) | Ratio: 5.21<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.99<br>AA 18pt <sup>2</sup> | Ratio: 3.04<br>AA 18pt <sup>2</sup> | Ratio: 2.33<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup>  | Ratio: 1.15<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.03<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 5.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.13<br>AA 18pt <sup>2</sup> | Ratio: 3.14<br>AA 18pt <sup>2</sup> | Ratio: 2.41<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 1.19<br>Failed <sup>5</sup>                      | Ratio: 1.03<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.

This PDF was generated on [convertingcolors.com](https://convertingcolors.com).