

# Converting Colors - WCAG Matrix

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

|             | Hex(FF04FF)                                             | Hex(E000E2)                                             | Hex(C100C5)                         | Hex(A300A9)                         | Hex(85008E)                        | Hex(670074)                         | Hex(4B005A)                                             | Hex(2B0042)                                             | Hex(00002A)                                             | Hex(000114)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(FF04FF) |                                                         | Ratio: 1.27<br>Failed <sup>5</sup>                      | Ratio: 1.65<br>Failed <sup>5</sup>  | Ratio: 2.14<br>Failed <sup>5</sup>  | Ratio: 2.81<br>Failed <sup>5</sup> | Ratio: 3.67<br>AA 18pt <sup>2</sup> | Ratio: 4.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.68<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.50<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(E000E2) | Ratio: 1.27<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.29<br>Failed <sup>5</sup>  | Ratio: 1.68<br>Failed <sup>5</sup>  | Ratio: 2.21<br>Failed <sup>5</sup> | Ratio: 2.88<br>Failed <sup>5</sup>  | Ratio: 3.64<br>AA 18pt <sup>2</sup>                     | Ratio: 4.46<br>AA 18pt <sup>2</sup>                     | Ratio: 5.10<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.19<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(C100C5) | Ratio: 1.65<br>Failed <sup>5</sup>                      | Ratio: 1.29<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 2.23<br>Failed <sup>5</sup>  | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 3.45<br>AA 18pt <sup>2</sup>                     | Ratio: 3.94<br>AA 18pt <sup>2</sup>                     | Ratio: 4.02<br>AA 18pt <sup>2</sup>                     |
| Hex(A300A9) | Ratio: 2.14<br>Failed <sup>5</sup>                      | Ratio: 1.68<br>Failed <sup>5</sup>                      | Ratio: 1.30<br>Failed <sup>5</sup>  |                                     | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup>  | Ratio: 2.16<br>Failed <sup>5</sup>                      | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 3.03<br>AA 18pt <sup>2</sup>                     | Ratio: 3.09<br>AA 18pt <sup>2</sup>                     |
| Hex(85008E) | Ratio: 2.81<br>Failed <sup>5</sup>                      | Ratio: 2.21<br>Failed <sup>5</sup>                      | Ratio: 1.71<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup>  |                                    | Ratio: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.65<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 2.31<br>Failed <sup>5</sup>                      | Ratio: 2.35<br>Failed <sup>5</sup>                      |
| Hex(670074) | Ratio: 3.67<br>AA 18pt <sup>2</sup>                     | Ratio: 2.88<br>Failed <sup>5</sup>                      | Ratio: 2.23<br>Failed <sup>5</sup>  | Ratio: 1.71<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup> |                                     | Ratio: 1.26<br>Failed <sup>5</sup>                      | Ratio: 1.55<br>Failed <sup>5</sup>                      | Ratio: 1.77<br>Failed <sup>5</sup>                      | Ratio: 1.80<br>Failed <sup>5</sup>                      |
| Hex(4B005A) | Ratio: 4.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.64<br>AA 18pt <sup>2</sup>                     | Ratio: 2.82<br>Failed <sup>5</sup>  | Ratio: 2.16<br>Failed <sup>5</sup>  | Ratio: 1.65<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.22<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |
| Hex(2B0042) | Ratio: 5.68<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.46<br>AA 18pt <sup>2</sup>                     | Ratio: 3.45<br>AA 18pt <sup>2</sup> | Ratio: 2.65<br>Failed <sup>5</sup>  | Ratio: 2.02<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.14<br>Failed <sup>5</sup>                      | Ratio: 1.16<br>Failed <sup>5</sup>                      |
| Hex(00002A) | Ratio: 6.50<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.10<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.94<br>AA 18pt <sup>2</sup> | Ratio: 3.03<br>AA 18pt <sup>2</sup> | Ratio: 2.31<br>Failed <sup>5</sup> | Ratio: 1.77<br>Failed <sup>5</sup>  | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 1.14<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.02<br>Failed <sup>5</sup>                      |
| Hex(000114) | Ratio: 6.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.19<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.02<br>AA 18pt <sup>2</sup> | Ratio: 3.09<br>AA 18pt <sup>2</sup> | Ratio: 2.35<br>Failed <sup>5</sup> | Ratio: 1.80<br>Failed <sup>5</sup>  | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 1.16<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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