

# Converting Colors - WCAG Matrix

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

|             | Hex(F2EAF)                                              | Hex(E00094)                                             | Hex(C1007A)                         | Hex(A30061)                        | Hex(840049)                         | Hex(670033)                         | Hex(4A001E)                                             | Hex(2D0001)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(F2EAF)  |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.76<br>Failed <sup>5</sup>  | Ratio: 2.29<br>Failed <sup>5</sup> | Ratio: 3.01<br>AA 18pt <sup>2</sup> | Ratio: 3.85<br>AA 18pt <sup>2</sup> | Ratio: 4.78<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.26<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(E00094) | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 1.68<br>Failed <sup>5</sup> | Ratio: 2.21<br>Failed <sup>5</sup>  | Ratio: 2.83<br>Failed <sup>5</sup>  | Ratio: 3.51<br>AA 18pt <sup>2</sup>                     | Ratio: 4.13<br>AA 18pt <sup>2</sup>                     | Ratio: 4.60<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(C1007A) | Ratio: 1.76<br>Failed <sup>5</sup>                      | Ratio: 1.30<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup>  | Ratio: 2.18<br>Failed <sup>5</sup>  | Ratio: 2.71<br>Failed <sup>5</sup>                      | Ratio: 3.19<br>AA 18pt <sup>2</sup>                     | Ratio: 3.55<br>AA 18pt <sup>2</sup>                     |
| Hex(A30061) | Ratio: 2.29<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: 1.68<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 2.46<br>Failed <sup>5</sup>                      | Ratio: 2.73<br>Failed <sup>5</sup>                      |
| Hex(840049) | Ratio: 3.01<br>AA 18pt <sup>2</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: 1.28<br>Failed <sup>5</sup>  | Ratio: 1.59<br>Failed <sup>5</sup>                      | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      |
| Hex(670033) | Ratio: 3.85<br>AA 18pt <sup>2</sup>                     | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 2.18<br>Failed <sup>5</sup>  | Ratio: 1.68<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup>  |                                     | Ratio: 1.24<br>Failed <sup>5</sup>                      | Ratio: 1.46<br>Failed <sup>5</sup>                      | Ratio: 1.62<br>Failed <sup>5</sup>                      |
| Hex(4A001E) | Ratio: 4.78<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.51<br>AA 18pt <sup>2</sup>                     | Ratio: 2.71<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup>  | Ratio: 1.24<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.18<br>Failed <sup>5</sup>                      | Ratio: 1.31<br>Failed <sup>5</sup>                      |
| Hex(2D0001) | Ratio: 5.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.13<br>AA 18pt <sup>2</sup>                     | Ratio: 3.19<br>AA 18pt <sup>2</sup> | Ratio: 2.46<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup>  | Ratio: 1.46<br>Failed <sup>5</sup>  | Ratio: 1.18<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.11<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 6.26<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.60<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.55<br>AA 18pt <sup>2</sup> | Ratio: 2.73<br>Failed <sup>5</sup> | Ratio: 2.08<br>Failed <sup>5</sup>  | Ratio: 1.62<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.11<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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