

# Converting Colors - WCAG Matrix

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

|             | Hex(E82AB9)                                             | Hex(CA009E)                         | Hex(AC0084)                         | Hex(8E006A)                        | Hex(710051)                         | Hex(55003A)                         | Hex(380024)                                             | Hex(17000A)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(E82AB9) |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.77<br>Failed <sup>5</sup>  | Ratio: 2.32<br>Failed <sup>5</sup> | Ratio: 3.00<br>AA 18pt <sup>2</sup> | Ratio: 3.77<br>AA 18pt <sup>2</sup> | Ratio: 4.58<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.25<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.46<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(CA009E) | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 1.70<br>Failed <sup>5</sup> | Ratio: 2.20<br>Failed <sup>5</sup>  | Ratio: 2.77<br>Failed <sup>5</sup>  | Ratio: 3.36<br>AA 18pt <sup>2</sup>                     | Ratio: 3.85<br>AA 18pt <sup>2</sup>                     | Ratio: 4.00<br>AA 18pt <sup>2</sup>                     |
| Hex(AC0084) | Ratio: 1.77<br>Failed <sup>5</sup>                      | Ratio: 1.30<br>Failed <sup>5</sup>  |                                     | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.70<br>Failed <sup>5</sup>  | Ratio: 2.13<br>Failed <sup>5</sup>  | Ratio: 2.59<br>Failed <sup>5</sup>                      | Ratio: 2.97<br>Failed <sup>5</sup>                      | Ratio: 3.09<br>AA 18pt <sup>2</sup>                     |
| Hex(8E006A) | Ratio: 2.32<br>Failed <sup>5</sup>                      | Ratio: 1.70<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup>  |                                    | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 1.63<br>Failed <sup>5</sup>  | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 2.27<br>Failed <sup>5</sup>                      | Ratio: 2.36<br>Failed <sup>5</sup>                      |
| Hex(710051) | Ratio: 3.00<br>AA 18pt <sup>2</sup>                     | Ratio: 2.20<br>Failed <sup>5</sup>  | Ratio: 1.70<br>Failed <sup>5</sup>  | Ratio: 1.30<br>Failed <sup>5</sup> |                                     | Ratio: 1.26<br>Failed <sup>5</sup>  | Ratio: 1.53<br>Failed <sup>5</sup>                      | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      |
| Hex(55003A) | Ratio: 3.77<br>AA 18pt <sup>2</sup>                     | Ratio: 2.77<br>Failed <sup>5</sup>  | Ratio: 2.13<br>Failed <sup>5</sup>  | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup>  |                                     | Ratio: 1.21<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |
| Hex(380024) | Ratio: 4.58<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.36<br>AA 18pt <sup>2</sup> | Ratio: 2.59<br>Failed <sup>5</sup>  | Ratio: 1.98<br>Failed <sup>5</sup> | Ratio: 1.53<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(17000A) | Ratio: 5.25<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.85<br>AA 18pt <sup>2</sup> | Ratio: 2.97<br>Failed <sup>5</sup>  | Ratio: 2.27<br>Failed <sup>5</sup> | Ratio: 1.75<br>Failed <sup>5</sup>  | Ratio: 1.39<br>Failed <sup>5</sup>  | Ratio: 1.15<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.04<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 5.46<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.00<br>AA 18pt <sup>2</sup> | Ratio: 3.09<br>AA 18pt <sup>2</sup> | Ratio: 2.36<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup>  | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 1.19<br>Failed <sup>5</sup>                      | Ratio: 1.04<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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