

# Converting Colors - WCAG Matrix

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

Hex(DC3CA1) Hex(BE1287) Hex(A1006E) Hex(840055) Hex(67003E) Hex(4C0028) Hex(450022)

|             | Hex(DC3CA1)                         | Hex(BE1287)                        | Hex(A1006E)                        | Hex(840055)                        | Hex(67003E)                         | Hex(4C0028)                         | Hex(450022)                         |
|-------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(DC3CA1) |                                     | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.90<br>Failed <sup>5</sup> | Ratio: 2.46<br>Failed <sup>5</sup> | Ratio: 3.16<br>AA 18pt <sup>2</sup> | Ratio: 3.89<br>AA 18pt <sup>2</sup> | Ratio: 4.08<br>AA 18pt <sup>2</sup> |
| Hex(BE1287) | Ratio: 1.44<br>Failed <sup>5</sup>  |                                    | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.72<br>Failed <sup>5</sup> | Ratio: 2.20<br>Failed <sup>5</sup>  | Ratio: 2.71<br>Failed <sup>5</sup>  | Ratio: 2.84<br>Failed <sup>5</sup>  |
| Hex(A1006E) | Ratio: 1.90<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup> |                                    | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup>  | Ratio: 2.05<br>Failed <sup>5</sup>  | Ratio: 2.15<br>Failed <sup>5</sup>  |
| Hex(840055) | Ratio: 2.46<br>Failed <sup>5</sup>  | Ratio: 1.72<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> |                                    | Ratio: 1.28<br>Failed <sup>5</sup>  | Ratio: 1.58<br>Failed <sup>5</sup>  | Ratio: 1.66<br>Failed <sup>5</sup>  |
| Hex(67003E) | Ratio: 3.16<br>AA 18pt <sup>2</sup> | Ratio: 2.20<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> |                                     | Ratio: 1.23<br>Failed <sup>5</sup>  | Ratio: 1.29<br>Failed <sup>5</sup>  |
| Hex(4C0028) | Ratio: 3.89<br>AA 18pt <sup>2</sup> | Ratio: 2.71<br>Failed <sup>5</sup> | Ratio: 2.05<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup>  |                                     | Ratio: 1.05<br>Failed <sup>5</sup>  |
| Hex(450022) | Ratio: 4.08<br>AA 18pt <sup>2</sup> | Ratio: 2.84<br>Failed <sup>5</sup> | Ratio: 2.15<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup>  | Ratio: 1.05<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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