

# Converting Colors - WCAG Matrix

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

|             | Hex(120000)                         | Hex(170000)                         | Hex(120800)                         | Hex(080707)                         | Hex(470001)                        | Hex(C70004)                         |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|
| Hex(120000) |                                     | Ratio: 1.01<br>Failed <sup>5</sup>  | Ratio: 1.03<br>Failed <sup>5</sup>  | Ratio: 1.02<br>Failed <sup>5</sup>  | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 3.34<br>AA 18pt <sup>2</sup> |
| Hex(170000) | Ratio: 1.01<br>Failed <sup>5</sup>  |                                     | Ratio: 1.02<br>Failed <sup>5</sup>  | Ratio: 1.01<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup> | Ratio: 3.31<br>AA 18pt <sup>2</sup> |
| Hex(120800) | Ratio: 1.03<br>Failed <sup>5</sup>  | Ratio: 1.02<br>Failed <sup>5</sup>  |                                     | Ratio: 1.02<br>Failed <sup>5</sup>  | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 3.23<br>AA 18pt <sup>2</sup> |
| Hex(080707) | Ratio: 1.02<br>Failed <sup>5</sup>  | Ratio: 1.01<br>Failed <sup>5</sup>  | Ratio: 1.02<br>Failed <sup>5</sup>  |                                     | Ratio: 1.22<br>Failed <sup>5</sup> | Ratio: 3.29<br>AA 18pt <sup>2</sup> |
| Hex(470001) | Ratio: 1.24<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup>  | Ratio: 1.20<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup>  |                                    | Ratio: 2.70<br>Failed <sup>5</sup>  |
| Hex(C70004) | Ratio: 3.34<br>AA 18pt <sup>2</sup> | Ratio: 3.31<br>AA 18pt <sup>2</sup> | Ratio: 3.23<br>AA 18pt <sup>2</sup> | Ratio: 3.29<br>AA 18pt <sup>2</sup> | Ratio: 2.70<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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