

# Converting Colors - WCAG Matrix

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

|             | Hex(3D000A)                        | Hex(3D050F)                        | Hex(3D0D14)                        | Hex(3D121A)                        | Hex(3D171F)                        | Hex(3D1F24)                        | Hex(3D2629)                        | Hex(3D2B2E)                        | Hex(3D3033)                        | Hex(3D3838)                        |
|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Hex(3D000A) |                                    | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> |
| Hex(3D050F) | Ratio: 1.02<br>Failed <sup>5</sup> |                                    | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> |
| Hex(3D0D14) | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> |                                    | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> |
| Hex(3D121A) | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> |                                    | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.22<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> |
| Hex(3D171F) | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> |                                    | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> |
| Hex(3D1F24) | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> |                                    | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> |
| Hex(3D2629) | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> |                                    | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.21<br>Failed <sup>5</sup> |
| Hex(3D2B2E) | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup> | Ratio: 1.22<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> |                                    | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> |
| Hex(3D3033) | Ratio: 1.39<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> |                                    | Ratio: 1.09<br>Failed <sup>5</sup> |
| Hex(3D3838) | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.21<br>Failed <sup>5</sup> | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.09<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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