

# Converting Colors - WCAG Matrix

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

|             | Hex(91961A)                        | Hex(919629)                        | Hex(949638)                        | Hex(949647)                        | Hex(949657)                        | Hex(949666)                        | Hex(949673)                        | Hex(969682)                        | Hex(969691)                        | Hex(9696A1)                        |
|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Hex(91961A) |                                    | Ratio: 1.00<br>Failed <sup>5</sup> | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |
| Hex(919629) | Ratio: 1.00<br>Failed <sup>5</sup> |                                    | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |
| Hex(949638) | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.01<br>Failed <sup>5</sup> |                                    | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup> |
| Hex(949647) | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.01<br>Failed <sup>5</sup> |                                    | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup> |
| Hex(949657) | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.01<br>Failed <sup>5</sup> |                                    | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> |
| Hex(949666) | Ratio: 1.04<br>Failed <sup>5</sup> | 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: 1.01<br>Failed <sup>5</sup> |                                    | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> |
| Hex(949673) | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> | 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: 1.01<br>Failed <sup>5</sup> |                                    | Ratio: 1.02<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> |
| Hex(969682) | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> | 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: 1.01<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> |
| Hex(969691) | Ratio: 1.07<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.01<br>Failed <sup>5</sup> |                                    | Ratio: 1.01<br>Failed <sup>5</sup> |
| Hex(9696A1) | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup> | Ratio: 1.06<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.01<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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