

# Converting Colors - WCAG Matrix

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

|             | Hex(21A685)                        | Hex(32A689)                        | Hex(42A68D)                        | Hex(53A691)                        | Hex(63A695)                        | Hex(74A69A)                        | Hex(85A69E)                        | Hex(95A6A2)                        | Hex(A6A6A6)                        | Hex(B6A6AA)                        |
|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Hex(21A685) |                                    | Ratio: 1.01<br>Failed <sup>5</sup> | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> |
| Hex(32A689) | 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: 1.07<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> |
| Hex(42A68D) | 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: 1.05<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.22<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> |
| Hex(53A691) | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> | 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: 1.10<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.25<br>Failed <sup>5</sup> |
| Hex(63A695) | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup> | 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: 1.07<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.22<br>Failed <sup>5</sup> |
| Hex(74A69A) | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> | 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: 1.04<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.13<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> |
| Hex(85A69E) | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> |                                    | Ratio: 1.04<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> |
| Hex(95A6A2) | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup> |                                    | Ratio: 1.05<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |
| Hex(A6A6A6) | Ratio: 1.26<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.22<br>Failed <sup>5</sup> | Ratio: 1.19<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.13<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup> |                                    | Ratio: 1.05<br>Failed <sup>5</sup> |
| Hex(B6A6AA) | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.30<br>Failed <sup>5</sup> | Ratio: 1.28<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: 1.14<br>Failed <sup>5</sup> | Ratio: 1.09<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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