

# Converting Colors - WCAG Matrix

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

|             | Hex(A32F3B)                         | Hex(A34049)                         | Hex(A35058)                        | Hex(A36067)                        | Hex(A37176)                        | Hex(A38184)                        | Hex(A39193)                        | Hex(A3A2A2)                        | Hex(A3B2B0)                         | Hex(A3C2BF)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(A32F3B) |                                     | Ratio: 1.12<br>Failed <sup>5</sup>  | Ratio: 1.27<br>Failed <sup>5</sup> | Ratio: 1.46<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 1.99<br>Failed <sup>5</sup> | Ratio: 2.32<br>Failed <sup>5</sup> | Ratio: 2.72<br>Failed <sup>5</sup> | Ratio: 3.16<br>AA 18pt <sup>2</sup> | Ratio: 3.64<br>AA 18pt <sup>2</sup> |
| Hex(A34049) | Ratio: 1.12<br>Failed <sup>5</sup>  |                                     | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.08<br>Failed <sup>5</sup> | Ratio: 2.44<br>Failed <sup>5</sup> | Ratio: 2.82<br>Failed <sup>5</sup>  | Ratio: 3.26<br>AA 18pt <sup>2</sup> |
| Hex(A35058) | Ratio: 1.27<br>Failed <sup>5</sup>  | Ratio: 1.14<br>Failed <sup>5</sup>  |                                    | Ratio: 1.15<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.57<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 2.14<br>Failed <sup>5</sup> | Ratio: 2.48<br>Failed <sup>5</sup>  | Ratio: 2.87<br>Failed <sup>5</sup>  |
| Hex(A36067) | Ratio: 1.46<br>Failed <sup>5</sup>  | Ratio: 1.31<br>Failed <sup>5</sup>  | Ratio: 1.15<br>Failed <sup>5</sup> |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup> | Ratio: 1.86<br>Failed <sup>5</sup> | Ratio: 2.16<br>Failed <sup>5</sup>  | Ratio: 2.49<br>Failed <sup>5</sup>  |
| Hex(A37176) | Ratio: 1.71<br>Failed <sup>5</sup>  | Ratio: 1.53<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup>  | Ratio: 2.13<br>Failed <sup>5</sup>  |
| Hex(A38184) | Ratio: 1.99<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup>  | Ratio: 1.57<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup>  | Ratio: 1.83<br>Failed <sup>5</sup>  |
| Hex(A39193) | Ratio: 2.32<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup>  | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup>  | Ratio: 1.57<br>Failed <sup>5</sup>  |
| Hex(A3A2A2) | Ratio: 2.72<br>Failed <sup>5</sup>  | Ratio: 2.44<br>Failed <sup>5</sup>  | Ratio: 2.14<br>Failed <sup>5</sup> | Ratio: 1.86<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>  |
| Hex(A3B2B0) | Ratio: 3.16<br>AA 18pt <sup>2</sup> | Ratio: 2.82<br>Failed <sup>5</sup>  | Ratio: 2.48<br>Failed <sup>5</sup> | Ratio: 2.16<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 1.58<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                     | Ratio: 1.15<br>Failed <sup>5</sup>  |
| Hex(A3C2BF) | Ratio: 3.64<br>AA 18pt <sup>2</sup> | Ratio: 3.26<br>AA 18pt <sup>2</sup> | Ratio: 2.87<br>Failed <sup>5</sup> | Ratio: 2.49<br>Failed <sup>5</sup> | Ratio: 2.13<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 1.57<br>Failed <sup>5</sup> | Ratio: 1.34<br>Failed <sup>5</sup> | Ratio: 1.15<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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