

# Converting Colors - WCAG Matrix

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

|             | Hex(A52122)                         | Hex(A53232)                         | Hex(A54243)                        | Hex(A55253)                        | Hex(A56363)                        | Hex(A57374)                        | Hex(A58484)                        | Hex(A59495)                        | Hex(A5A5A5)                         | Hex(A5B6B5)                         |
|-------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(A52122) |                                     | Ratio: 1.09<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup> | Ratio: 1.38<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup> | Ratio: 2.19<br>Failed <sup>5</sup> | Ratio: 2.56<br>Failed <sup>5</sup> | Ratio: 3.00<br>AA 18pt <sup>2</sup> | Ratio: 3.51<br>AA 18pt <sup>2</sup> |
| Hex(A53232) | Ratio: 1.09<br>Failed <sup>5</sup>  |                                     | Ratio: 1.12<br>Failed <sup>5</sup> | Ratio: 1.27<br>Failed <sup>5</sup> | Ratio: 1.47<br>Failed <sup>5</sup> | Ratio: 1.71<br>Failed <sup>5</sup> | Ratio: 2.01<br>Failed <sup>5</sup> | Ratio: 2.34<br>Failed <sup>5</sup> | Ratio: 2.75<br>Failed <sup>5</sup>  | Ratio: 3.21<br>AA 18pt <sup>2</sup> |
| Hex(A54243) | Ratio: 1.22<br>Failed <sup>5</sup>  | Ratio: 1.12<br>Failed <sup>5</sup>  |                                    | Ratio: 1.14<br>Failed <sup>5</sup> | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.53<br>Failed <sup>5</sup> | Ratio: 1.80<br>Failed <sup>5</sup> | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 2.46<br>Failed <sup>5</sup>  | Ratio: 2.88<br>Failed <sup>5</sup>  |
| Hex(A55253) | Ratio: 1.38<br>Failed <sup>5</sup>  | Ratio: 1.27<br>Failed <sup>5</sup>  | Ratio: 1.14<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup> | Ratio: 1.85<br>Failed <sup>5</sup> | Ratio: 2.17<br>Failed <sup>5</sup>  | Ratio: 2.53<br>Failed <sup>5</sup>  |
| Hex(A56363) | Ratio: 1.61<br>Failed <sup>5</sup>  | Ratio: 1.47<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup> | Ratio: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.16<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup>  | Ratio: 2.18<br>Failed <sup>5</sup>  |
| Hex(A57374) | Ratio: 1.87<br>Failed <sup>5</sup>  | 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: 1.16<br>Failed <sup>5</sup> |                                    | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup>  | Ratio: 1.88<br>Failed <sup>5</sup>  |
| Hex(A58484) | Ratio: 2.19<br>Failed <sup>5</sup>  | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 1.80<br>Failed <sup>5</sup> | Ratio: 1.59<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> |                                    | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.60<br>Failed <sup>5</sup>  |
| Hex(A59495) | Ratio: 2.56<br>Failed <sup>5</sup>  | Ratio: 2.34<br>Failed <sup>5</sup>  | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 1.85<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: 1.17<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup>  |
| Hex(A5A5A5) | Ratio: 3.00<br>AA 18pt <sup>2</sup> | Ratio: 2.75<br>Failed <sup>5</sup>  | Ratio: 2.46<br>Failed <sup>5</sup> | Ratio: 2.17<br>Failed <sup>5</sup> | Ratio: 1.87<br>Failed <sup>5</sup> | Ratio: 1.61<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> |                                     | Ratio: 1.17<br>Failed <sup>5</sup>  |
| Hex(A5B6B5) | Ratio: 3.51<br>AA 18pt <sup>2</sup> | Ratio: 3.21<br>AA 18pt <sup>2</sup> | Ratio: 2.88<br>Failed <sup>5</sup> | Ratio: 2.53<br>Failed <sup>5</sup> | Ratio: 2.18<br>Failed <sup>5</sup> | Ratio: 1.88<br>Failed <sup>5</sup> | Ratio: 1.60<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.17<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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