

# Converting Colors - WCAG Matrix

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

|             | Hex(BA8282)                                             | Hex(9F6969)                                             | Hex(845051)                         | Hex(69393A)                        | Hex(502224)                         | Hex(370C0F)                                             | Hex(230001)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(BA8282) |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>  | Ratio: 2.94<br>Failed <sup>5</sup> | Ratio: 4.14<br>AA 18pt <sup>2</sup> | Ratio: 5.40<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.60<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(9F6969) | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 2.09<br>Failed <sup>5</sup> | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 3.85<br>AA 18pt <sup>2</sup>                     | Ratio: 4.38<br>AA 18pt <sup>2</sup>                     | Ratio: 4.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(845051) | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 2.66<br>Failed <sup>5</sup>                      | Ratio: 3.03<br>AA 18pt <sup>2</sup>                     | Ratio: 3.25<br>AA 18pt <sup>2</sup>                     |
| Hex(69393A) | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                    | Ratio: 1.41<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 2.10<br>Failed <sup>5</sup>                      | Ratio: 2.25<br>Failed <sup>5</sup>                      |
| Hex(502224) | Ratio: 4.14<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 1.41<br>Failed <sup>5</sup> |                                     | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.49<br>Failed <sup>5</sup>                      | Ratio: 1.60<br>Failed <sup>5</sup>                      |
| Hex(370C0F) | Ratio: 5.40<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.85<br>AA 18pt <sup>2</sup>                     | Ratio: 2.66<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 1.31<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.14<br>Failed <sup>5</sup>                      | Ratio: 1.22<br>Failed <sup>5</sup>                      |
| Hex(230001) | Ratio: 6.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.38<br>AA 18pt <sup>2</sup>                     | Ratio: 3.03<br>AA 18pt <sup>2</sup> | Ratio: 2.10<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup>  | Ratio: 1.14<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.07<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 6.60<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.25<br>AA 18pt <sup>2</sup> | Ratio: 2.25<br>Failed <sup>5</sup> | Ratio: 1.60<br>Failed <sup>5</sup>  | Ratio: 1.22<br>Failed <sup>5</sup>                      | Ratio: 1.07<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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