

# Converting Colors - WCAG Matrix

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

Hex(824148) Hex(A8434E) Hex(41825A) Hex(40393A) Hex(80000E) Hex(000000)

|             | Hex(824148)                        | Hex(A8434E)                         | Hex(41825A)                                             | Hex(40393A)                        | Hex(80000E)                        | Hex(000000)                                             |
|-------------|------------------------------------|-------------------------------------|---------------------------------------------------------|------------------------------------|------------------------------------|---------------------------------------------------------|
| Hex(824148) |                                    | Ratio: 1.28<br>Failed <sup>5</sup>  | Ratio: 1.63<br>Failed <sup>5</sup>                      | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 2.80<br>Failed <sup>5</sup>                      |
| Hex(A8434E) | Ratio: 1.28<br>Failed <sup>5</sup> |                                     | Ratio: 1.28<br>Failed <sup>5</sup>                      | Ratio: 1.92<br>Failed <sup>5</sup> | Ratio: 1.86<br>Failed <sup>5</sup> | Ratio: 3.58<br>AA 18pt <sup>2</sup>                     |
| Hex(41825A) | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup>  |                                                         | Ratio: 2.45<br>Failed <sup>5</sup> | Ratio: 2.37<br>Failed <sup>5</sup> | Ratio: 4.57<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(40393A) | Ratio: 1.50<br>Failed <sup>5</sup> | Ratio: 1.92<br>Failed <sup>5</sup>  | Ratio: 2.45<br>Failed <sup>5</sup>                      |                                    | Ratio: 1.03<br>Failed <sup>5</sup> | Ratio: 1.86<br>Failed <sup>5</sup>                      |
| Hex(80000E) | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.86<br>Failed <sup>5</sup>  | Ratio: 2.37<br>Failed <sup>5</sup>                      | Ratio: 1.03<br>Failed <sup>5</sup> |                                    | Ratio: 1.92<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 2.80<br>Failed <sup>5</sup> | Ratio: 3.58<br>AA 18pt <sup>2</sup> | Ratio: 4.57<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.86<br>Failed <sup>5</sup> | Ratio: 1.92<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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