

# Converting Colors - WCAG Matrix

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

|              | Hex(1C1D1B)                                             | Hex(FFFFFFE)                                            | Hex(474846)                                             | Hex(5F605E)                                             | Hex(787976)                         | Hex(919390)                                             | Hex(ACADAA)                         | Hex(C7C8C6)                                             | Hex(E3E5E2)                                             |
|--------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(1C1D1B)  |                                                         | Ratio: 16.91<br>Passed <sup>6</sup>                     | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 2.68<br>Failed <sup>5</sup>                      | Ratio: 3.86<br>AA 18pt <sup>2</sup> | Ratio: 5.46<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.50<br>Passed <sup>6</sup>  | Ratio: 10.08<br>Passed <sup>6</sup>                     | Ratio: 13.35<br>Passed <sup>6</sup>                     |
| Hex(FFFFFFE) | Ratio: 16.91<br>Passed <sup>6</sup>                     |                                                         | Ratio: 9.19<br>Passed <sup>6</sup>                      | Ratio: 6.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.38<br>AA 18pt <sup>2</sup> | Ratio: 3.10<br>AA 18pt <sup>2</sup>                     | Ratio: 2.25<br>Failed <sup>5</sup>  | Ratio: 1.68<br>Failed <sup>5</sup>                      | Ratio: 1.27<br>Failed <sup>5</sup>                      |
| Hex(474846)  | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 9.19<br>Passed <sup>6</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.10<br>Failed <sup>5</sup>  | Ratio: 2.97<br>Failed <sup>5</sup>                      | Ratio: 4.08<br>AA 18pt <sup>2</sup> | Ratio: 5.48<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.26<br>Passed <sup>6</sup>                      |
| Hex(5F605E)  | Ratio: 2.68<br>Failed <sup>5</sup>                      | Ratio: 6.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 2.80<br>Failed <sup>5</sup>  | Ratio: 3.77<br>AA 18pt <sup>2</sup>                     | Ratio: 4.99<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(787976)  | Ratio: 3.86<br>AA 18pt <sup>2</sup>                     | Ratio: 4.38<br>AA 18pt <sup>2</sup>                     | Ratio: 2.10<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>  | Ratio: 2.61<br>Failed <sup>5</sup>                      | Ratio: 3.46<br>AA 18pt <sup>2</sup>                     |
| Hex(919390)  | Ratio: 5.46<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.10<br>AA 18pt <sup>2</sup>                     | Ratio: 2.97<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 2.44<br>Failed <sup>5</sup>                      |
| Hex(ACADAA)  | Ratio: 7.50<br>Passed <sup>6</sup>                      | Ratio: 2.25<br>Failed <sup>5</sup>                      | Ratio: 4.08<br>AA 18pt <sup>2</sup>                     | Ratio: 2.80<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.78<br>Failed <sup>5</sup>                      |
| Hex(C7C8C6)  | Ratio: 10.08<br>Passed <sup>6</sup>                     | Ratio: 1.68<br>Failed <sup>5</sup>                      | Ratio: 5.48<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.77<br>AA 18pt <sup>2</sup>                     | Ratio: 2.61<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 1.34<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.33<br>Failed <sup>5</sup>                      |
| Hex(E3E5E2)  | Ratio: 13.35<br>Passed <sup>6</sup>                     | Ratio: 1.27<br>Failed <sup>5</sup>                      | Ratio: 7.26<br>Passed <sup>6</sup>                      | Ratio: 4.99<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.46<br>AA 18pt <sup>2</sup> | Ratio: 2.44<br>Failed <sup>5</sup>                      | Ratio: 1.78<br>Failed <sup>5</sup>  | Ratio: 1.33<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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