

# Converting Colors - WCAG Matrix

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

|             | Hex(33403D)                                             | Hex(FFFFFF)                                             | Hex(62706C)                                             | Hex(7A8986)                         | Hex(94A3A0)                         | Hex(AFBEBB)                                             | Hex(CADAD6)                         | Hex(E7F7F3)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(33403D) |                                                         | Ratio: 10.82<br>Passed <sup>6</sup>                     | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 2.96<br>Failed <sup>5</sup>  | Ratio: 4.12<br>AA 18pt <sup>2</sup> | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.47<br>Passed <sup>6</sup>  | Ratio: 9.78<br>Passed <sup>6</sup>                      |
| Hex(FFFFFF) | Ratio: 10.82<br>Passed <sup>6</sup>                     |                                                         | Ratio: 5.18<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.65<br>AA 18pt <sup>2</sup> | Ratio: 2.62<br>Failed <sup>5</sup>  | Ratio: 1.93<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 1.11<br>Failed <sup>5</sup>                      |
| Hex(62706C) | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 5.18<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 1.97<br>Failed <sup>5</sup>  | Ratio: 2.69<br>Failed <sup>5</sup>                      | Ratio: 3.58<br>AA 18pt <sup>2</sup> | Ratio: 4.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(7A8986) | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 3.65<br>AA 18pt <sup>2</sup>                     | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.39<br>Failed <sup>5</sup>  | Ratio: 1.90<br>Failed <sup>5</sup>                      | Ratio: 2.52<br>Failed <sup>5</sup>  | Ratio: 3.30<br>AA 18pt <sup>2</sup>                     |
| Hex(94A3A0) | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 2.62<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>  |                                     | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.81<br>Failed <sup>5</sup>  | Ratio: 2.37<br>Failed <sup>5</sup>                      |
| Hex(AFBEBB) | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.93<br>Failed <sup>5</sup>                      | Ratio: 2.69<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.33<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup>                      |
| Hex(CADAD6) | Ratio: 7.47<br>Passed <sup>6</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 3.58<br>AA 18pt <sup>2</sup>                     | Ratio: 2.52<br>Failed <sup>5</sup>  | Ratio: 1.81<br>Failed <sup>5</sup>  | Ratio: 1.33<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.31<br>Failed <sup>5</sup>                      |
| Hex(E7F7F3) | Ratio: 9.78<br>Passed <sup>6</sup>                      | Ratio: 1.11<br>Failed <sup>5</sup>                      | Ratio: 4.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.30<br>AA 18pt <sup>2</sup> | Ratio: 2.37<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup>                      | Ratio: 1.31<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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