

# Converting Colors - WCAG Matrix

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

|             | Hex(9FC9F9)                                             | Hex(83AEDC)                                             | Hex(6893C0)                                             | Hex(4D79A5)                                             | Hex(31618B)                         | Hex(0E4971)                                             | Hex(003358)                                             | Hex(001E41)                                             | Hex(00032B)                                             | Hex(000115)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(9FC9F9) |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 2.66<br>Failed <sup>5</sup>                      | Ratio: 3.80<br>AA 18pt <sup>2</sup> | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.56<br>Passed <sup>6</sup>                      | Ratio: 9.66<br>Passed <sup>6</sup>                      | Ratio: 11.64<br>Passed <sup>6</sup>                     | Ratio: 12.01<br>Passed <sup>6</sup>                     |
| Hex(83AEDC) | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 2.82<br>Failed <sup>5</sup>  | Ratio: 4.10<br>AA 18pt <sup>2</sup>                     | Ratio: 5.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.17<br>Passed <sup>6</sup>                      | Ratio: 8.64<br>Passed <sup>6</sup>                      | Ratio: 8.92<br>Passed <sup>6</sup>                      |
| Hex(6893C0) | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>  | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 4.04<br>AA 18pt <sup>2</sup>                     | Ratio: 5.17<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.22<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.43<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(4D79A5) | Ratio: 2.66<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 2.85<br>Failed <sup>5</sup>                      | Ratio: 3.64<br>AA 18pt <sup>2</sup>                     | Ratio: 4.38<br>AA 18pt <sup>2</sup>                     | Ratio: 4.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(31618B) | Ratio: 3.80<br>AA 18pt <sup>2</sup>                     | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 2.03<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 2.55<br>Failed <sup>5</sup>                      | Ratio: 3.07<br>AA 18pt <sup>2</sup>                     | Ratio: 3.17<br>AA 18pt <sup>2</sup>                     |
| Hex(0E4971) | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.10<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 2.11<br>Failed <sup>5</sup>                      | Ratio: 2.18<br>Failed <sup>5</sup>                      |
| Hex(003358) | Ratio: 7.56<br>Passed <sup>6</sup>                      | Ratio: 5.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.04<br>AA 18pt <sup>2</sup>                     | Ratio: 2.85<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>  | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.28<br>Failed <sup>5</sup>                      | Ratio: 1.54<br>Failed <sup>5</sup>                      | Ratio: 1.59<br>Failed <sup>5</sup>                      |
| Hex(001E41) | Ratio: 9.66<br>Passed <sup>6</sup>                      | Ratio: 7.17<br>Passed <sup>6</sup>                      | Ratio: 5.17<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.64<br>AA 18pt <sup>2</sup>                     | Ratio: 2.55<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 1.28<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.20<br>Failed <sup>5</sup>                      | Ratio: 1.24<br>Failed <sup>5</sup>                      |
| Hex(00032B) | Ratio: 11.64<br>Passed <sup>6</sup>                     | Ratio: 8.64<br>Passed <sup>6</sup>                      | Ratio: 6.22<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.38<br>AA 18pt <sup>2</sup>                     | Ratio: 3.07<br>AA 18pt <sup>2</sup> | Ratio: 2.11<br>Failed <sup>5</sup>                      | Ratio: 1.54<br>Failed <sup>5</sup>                      | Ratio: 1.20<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.03<br>Failed <sup>5</sup>                      |
| Hex(000115) | Ratio: 12.01<br>Passed <sup>6</sup>                     | Ratio: 8.92<br>Passed <sup>6</sup>                      | Ratio: 6.43<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.17<br>AA 18pt <sup>2</sup> | Ratio: 2.18<br>Failed <sup>5</sup>                      | Ratio: 1.59<br>Failed <sup>5</sup>                      | Ratio: 1.24<br>Failed <sup>5</sup>                      | Ratio: 1.03<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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