

# Converting Colors - WCAG Matrix

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

|             | Hex(AEE6D5)                                             | Hex(93CAB9)                                             | Hex(78AE9E)                                             | Hex(5E9484)                                             | Hex(457A6B)                         | Hex(2C6153)                                             | Hex(11493C)                                             | Hex(003226)                                             | Hex(001E12)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(AEE6D5) |                                                         | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.81<br>Failed <sup>5</sup>                      | Ratio: 2.49<br>Failed <sup>5</sup>                      | Ratio: 3.55<br>AA 18pt <sup>2</sup> | Ratio: 5.13<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.38<br>Passed <sup>6</sup>                      | Ratio: 10.16<br>Passed <sup>6</sup>                     | Ratio: 12.62<br>Passed <sup>6</sup>                     | Ratio: 15.08<br>Passed <sup>6</sup>                     |
| Hex(93CAB9) | Ratio: 1.32<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>                      | Ratio: 2.68<br>Failed <sup>5</sup>  | Ratio: 3.87<br>AA 18pt <sup>2</sup>                     | Ratio: 5.58<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.67<br>Passed <sup>6</sup>                      | Ratio: 9.54<br>Passed <sup>6</sup>                      | Ratio: 11.39<br>Passed <sup>6</sup>                     |
| Hex(78AE9E) | Ratio: 1.81<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>  | Ratio: 2.84<br>Failed <sup>5</sup>                      | Ratio: 4.09<br>AA 18pt <sup>2</sup>                     | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.99<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 8.35<br>Passed <sup>6</sup>                      |
| Hex(5E9484) | Ratio: 2.49<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>                      | Ratio: 1.38<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 4.07<br>AA 18pt <sup>2</sup>                     | Ratio: 5.06<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.04<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(457A6B) | Ratio: 3.55<br>AA 18pt <sup>2</sup>                     | Ratio: 2.68<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 2.86<br>Failed <sup>5</sup>                      | Ratio: 3.56<br>AA 18pt <sup>2</sup>                     | Ratio: 4.25<br>AA 18pt <sup>2</sup>                     |
| Hex(2C6153) | Ratio: 5.13<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.87<br>AA 18pt <sup>2</sup>                     | Ratio: 2.84<br>Failed <sup>5</sup>                      | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 2.46<br>Failed <sup>5</sup>                      | Ratio: 2.94<br>Failed <sup>5</sup>                      |
| Hex(11493C) | Ratio: 7.38<br>Passed <sup>6</sup>                      | Ratio: 5.58<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.09<br>AA 18pt <sup>2</sup>                     | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>  | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>                      |
| Hex(003226) | Ratio: 10.16<br>Passed <sup>6</sup>                     | Ratio: 7.67<br>Passed <sup>6</sup>                      | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.07<br>AA 18pt <sup>2</sup>                     | Ratio: 2.86<br>Failed <sup>5</sup>  | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 1.38<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.24<br>Failed <sup>5</sup>                      | Ratio: 1.48<br>Failed <sup>5</sup>                      |
| Hex(001E12) | Ratio: 12.62<br>Passed <sup>6</sup>                     | Ratio: 9.54<br>Passed <sup>6</sup>                      | Ratio: 6.99<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.06<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.56<br>AA 18pt <sup>2</sup> | Ratio: 2.46<br>Failed <sup>5</sup>                      | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 1.24<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.19<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 15.08<br>Passed <sup>6</sup>                     | Ratio: 11.39<br>Passed <sup>6</sup>                     | Ratio: 8.35<br>Passed <sup>6</sup>                      | Ratio: 6.04<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.25<br>AA 18pt <sup>2</sup> | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 1.48<br>Failed <sup>5</sup>                      | Ratio: 1.19<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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