

# Converting Colors - WCAG Matrix

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

|             | Hex(97B5D3)                                             | Hex(7D9AB7)                                             | Hex(63809C)                                             | Hex(4A6782)                         | Hex(314F69)                         | Hex(173951)                                             | Hex(002339)                                             | Hex(000D24)                                             | Hex(00010D)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(97B5D3) |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 4.02<br>AA 18pt <sup>2</sup> | Ratio: 5.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.59<br>Passed <sup>6</sup>                      | Ratio: 9.11<br>Passed <sup>6</sup>                      | Ratio: 9.77<br>Passed <sup>6</sup>                      | Ratio: 9.87<br>Passed <sup>6</sup>                      |
| Hex(7D9AB7) | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.93<br>Failed <sup>5</sup>  | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.11<br>Passed <sup>6</sup>                      | Ratio: 7.18<br>Passed <sup>6</sup>                      |
| Hex(63809C) | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup>  | Ratio: 2.93<br>Failed <sup>5</sup>                      | Ratio: 3.92<br>AA 18pt <sup>2</sup>                     | Ratio: 4.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.05<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.10<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(4A6782) | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 2.04<br>Failed <sup>5</sup>                      | Ratio: 2.73<br>Failed <sup>5</sup>                      | Ratio: 3.28<br>AA 18pt <sup>2</sup>                     | Ratio: 3.52<br>AA 18pt <sup>2</sup>                     | Ratio: 3.55<br>AA 18pt <sup>2</sup>                     |
| Hex(314F69) | Ratio: 4.02<br>AA 18pt <sup>2</sup>                     | Ratio: 2.93<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                     | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>                      | Ratio: 2.27<br>Failed <sup>5</sup>                      | Ratio: 2.43<br>Failed <sup>5</sup>                      | Ratio: 2.45<br>Failed <sup>5</sup>                      |
| Hex(173951) | Ratio: 5.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 2.93<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 1.41<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.61<br>Failed <sup>5</sup>                      | Ratio: 1.72<br>Failed <sup>5</sup>                      | Ratio: 1.74<br>Failed <sup>5</sup>                      |
| Hex(002339) | Ratio: 7.59<br>Passed <sup>6</sup>                      | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.92<br>AA 18pt <sup>2</sup>                     | Ratio: 2.73<br>Failed <sup>5</sup>  | Ratio: 1.89<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.20<br>Failed <sup>5</sup>                      | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 1.30<br>Failed <sup>5</sup>                      |
| Hex(000D24) | Ratio: 9.11<br>Passed <sup>6</sup>                      | Ratio: 6.63<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.28<br>AA 18pt <sup>2</sup> | Ratio: 2.27<br>Failed <sup>5</sup>  | Ratio: 1.61<br>Failed <sup>5</sup>                      | Ratio: 1.20<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.07<br>Failed <sup>5</sup>                      | Ratio: 1.08<br>Failed <sup>5</sup>                      |
| Hex(00010D) | Ratio: 9.77<br>Passed <sup>6</sup>                      | Ratio: 7.11<br>Passed <sup>6</sup>                      | Ratio: 5.05<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.52<br>AA 18pt <sup>2</sup> | Ratio: 2.43<br>Failed <sup>5</sup>  | Ratio: 1.72<br>Failed <sup>5</sup>                      | Ratio: 1.29<br>Failed <sup>5</sup>                      | Ratio: 1.07<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.01<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 9.87<br>Passed <sup>6</sup>                      | Ratio: 7.18<br>Passed <sup>6</sup>                      | Ratio: 5.10<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.55<br>AA 18pt <sup>2</sup> | Ratio: 2.45<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup>                      | Ratio: 1.30<br>Failed <sup>5</sup>                      | Ratio: 1.08<br>Failed <sup>5</sup>                      | Ratio: 1.01<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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