

# Converting Colors - WCAG Matrix

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

|             | Hex(A3D694)                                             | Hex(87BA7A)                                             | Hex(6E9E61)                                             | Hex(548547)                                             | Hex(3B6B30)                         | Hex(21541A)                                                  | Hex(053B03)                                                  | Hex(002600)                                                  | Hex(000500)                                                  | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------|
| Hex(A3D694) |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 2.61<br>Failed <sup>5</sup>                      | Ratio: 3.78<br>AA 18pt <sup>2</sup> | Ratio: 5.37<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup>      | Ratio: 7.72<br>Passed <sup>6</sup>                           | Ratio: 9.87<br>Passed <sup>6</sup>                           | Ratio: 12.33<br>Passed <sup>6</sup>                          | Ratio: 12.60<br>Passed <sup>6</sup>                     |
| Hex(87BA7A) | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 2.80<br>Failed <sup>5</sup>  | Ratio: 3.98<br>AA 18pt <sup>2</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup>      | Ratio: 7.31<br>Passed <sup>6</sup>                           | Ratio: 9.14<br>Passed <sup>6</sup>                           | Ratio: 9.33<br>Passed <sup>6</sup>                      |
| Hex(6E9E61) | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.86<br>Failed <sup>5</sup>                           | Ratio: 4.12<br>AA 18pt <sup>2</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.27<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup>      | Ratio: 6.58<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup>      | Ratio: 6.73<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(548547) | Ratio: 2.61<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 2.05<br>Failed <sup>5</sup>                           | Ratio: 2.95<br>Failed <sup>5</sup>                           | Ratio: 3.78<br>AA 18pt <sup>2</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.72<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup>      | Ratio: 4.82<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(3B6B30) | Ratio: 3.78<br>AA 18pt <sup>2</sup>                     | Ratio: 2.80<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.42<br>Failed <sup>5</sup>                           | Ratio: 2.04<br>Failed <sup>5</sup>                           | Ratio: 2.61<br>Failed <sup>5</sup>                           | Ratio: 3.26<br>AA 18pt <sup>2</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.33<br>AA 18pt <sup>2</sup>                     |
| Hex(21541A) | Ratio: 5.37<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.98<br>AA 18pt <sup>2</sup>                     | Ratio: 2.86<br>Failed <sup>5</sup>                      | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>  |                                                              | Ratio: 1.44<br>Failed <sup>5</sup>                           | Ratio: 1.84<br>Failed <sup>5</sup>                           | Ratio: 2.30<br>Failed <sup>5</sup>                           | Ratio: 2.35<br>Failed <sup>5</sup>                      |
| Hex(053B03) | Ratio: 7.72<br>Passed <sup>6</sup>                      | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.12<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.04<br>Failed <sup>5</sup>  | Ratio: 1.44<br>Failed <sup>5</sup>                           |                                                              | Ratio: 1.28<br>Failed <sup>5</sup>                           | Ratio: 1.60<br>Failed <sup>5</sup>                           | Ratio: 1.63<br>Failed <sup>5</sup>                      |
| Hex(002600) | Ratio: 9.87<br>Passed <sup>6</sup>                      | Ratio: 7.31<br>Passed <sup>6</sup>                      | Ratio: 5.27<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.78<br>AA 18pt <sup>2</sup>                     | Ratio: 2.61<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup>                           | Ratio: 1.28<br>Failed <sup>5</sup>                           |                                                              | Ratio: 1.25<br>Failed <sup>5</sup>                           | Ratio: 1.28<br>Failed <sup>5</sup>                      |
| Hex(000500) | Ratio: 12.33<br>Passed <sup>6</sup>                     | Ratio: 9.14<br>Passed <sup>6</sup>                      | Ratio: 6.58<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.72<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.26<br>AA 18pt <sup>2</sup> | Ratio: 2.30<br>Failed <sup>5</sup>                           | Ratio: 1.60<br>Failed <sup>5</sup>                           | Ratio: 1.25<br>Failed <sup>5</sup>                           |                                                              | Ratio: 1.02<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 12.60<br>Passed <sup>6</sup>                     | Ratio: 9.33<br>Passed <sup>6</sup>                      | Ratio: 6.73<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.82<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.33<br>AA 18pt <sup>2</sup> | Ratio: 2.35<br>Failed <sup>5</sup>                           | Ratio: 1.63<br>Failed <sup>5</sup>                           | Ratio: 1.28<br>Failed <sup>5</sup>                           | Ratio: 1.02<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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