

# Converting Colors - WCAG Matrix

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

|             | Hex(BAF500)                                             | Hex(9CD900)                                             | Hex(80BD00)                                             | Hex(61A100)                                             | Hex(428700)                                             | Hex(216E00)                                             | Hex(005400)                                             | Hex(003D00)                                             | Hex(002600)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(BAF500) |                                                         | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.76<br>Failed <sup>5</sup>                      | Ratio: 2.44<br>Failed <sup>5</sup>                      | Ratio: 3.44<br>AA 18pt <sup>2</sup>                     | Ratio: 4.90<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.12<br>Passed <sup>6</sup>                      | Ratio: 9.69<br>Passed <sup>6</sup>                      | Ratio: 12.64<br>Passed <sup>6</sup>                     | Ratio: 16.15<br>Passed <sup>6</sup>                     |
| Hex(9CD900) | Ratio: 1.31<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 2.63<br>Failed <sup>5</sup>                      | Ratio: 3.74<br>AA 18pt <sup>2</sup>                     | Ratio: 5.44<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.40<br>Passed <sup>6</sup>                      | Ratio: 9.66<br>Passed <sup>6</sup>                      | Ratio: 12.34<br>Passed <sup>6</sup>                     |
| Hex(80BD00) | Ratio: 1.76<br>Failed <sup>5</sup>                      | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 2.79<br>Failed <sup>5</sup>                      | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.20<br>Passed <sup>6</sup>                      | Ratio: 9.20<br>Passed <sup>6</sup>                      |
| Hex(61A100) | Ratio: 2.44<br>Failed <sup>5</sup>                      | Ratio: 1.87<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 3.96<br>AA 18pt <sup>2</sup>                     | Ratio: 5.17<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(428700) | Ratio: 3.44<br>AA 18pt <sup>2</sup>                     | Ratio: 2.63<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 3.68<br>AA 18pt <sup>2</sup>                     | Ratio: 4.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(216E00) | Ratio: 4.90<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.74<br>AA 18pt <sup>2</sup>                     | Ratio: 2.79<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 2.58<br>Failed <sup>5</sup>                      | Ratio: 3.29<br>AA 18pt <sup>2</sup>                     |
| Hex(005400) | Ratio: 7.12<br>Passed <sup>6</sup>                      | Ratio: 5.44<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.78<br>Failed <sup>5</sup>                      | Ratio: 2.27<br>Failed <sup>5</sup>                      |
| Hex(003D00) | Ratio: 9.69<br>Passed <sup>6</sup>                      | Ratio: 7.40<br>Passed <sup>6</sup>                      | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.96<br>AA 18pt <sup>2</sup>                     | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.67<br>Failed <sup>5</sup>                      |
| Hex(002600) | Ratio: 12.64<br>Passed <sup>6</sup>                     | Ratio: 9.66<br>Passed <sup>6</sup>                      | Ratio: 7.20<br>Passed <sup>6</sup>                      | Ratio: 5.17<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.68<br>AA 18pt <sup>2</sup>                     | Ratio: 2.58<br>Failed <sup>5</sup>                      | Ratio: 1.78<br>Failed <sup>5</sup>                      | Ratio: 1.31<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.28<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 16.15<br>Passed <sup>6</sup>                     | Ratio: 12.34<br>Passed <sup>6</sup>                     | Ratio: 9.20<br>Passed <sup>6</sup>                      | Ratio: 6.61<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.29<br>AA 18pt <sup>2</sup>                     | Ratio: 2.27<br>Failed <sup>5</sup>                      | Ratio: 1.67<br>Failed <sup>5</sup>                      | Ratio: 1.28<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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