

# Converting Colors - WCAG Matrix

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

|             | Hex(62FF62)                                             | Hex(3CE246)                                             | Hex(00C528)                                             | Hex(00A900)                                             | Hex(008D00)                         | Hex(007200)                                             | Hex(005800)                                             | Hex(003F00)                                             | Hex(002600)                                             | Hex(FFFFFF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(62FF62) |                                                         | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.77<br>Failed <sup>5</sup>                      | Ratio: 2.40<br>Failed <sup>5</sup>                      | Ratio: 3.33<br>AA 18pt <sup>2</sup> | Ratio: 4.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.68<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 9.35<br>Passed <sup>6</sup>                      | Ratio: 12.53<br>Passed <sup>6</sup>                     | Ratio: 1.31<br>Failed <sup>5</sup>                      |
| Hex(3CE246) | Ratio: 1.32<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 2.53<br>Failed <sup>5</sup>  | Ratio: 3.57<br>AA 18pt <sup>2</sup>                     | Ratio: 5.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.11<br>Passed <sup>6</sup>                      | Ratio: 9.52<br>Passed <sup>6</sup>                      | Ratio: 1.73<br>Failed <sup>5</sup>                      |
| Hex(00C528) | Ratio: 1.77<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.87<br>Failed <sup>5</sup>  | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 3.76<br>AA 18pt <sup>2</sup>                     | Ratio: 5.27<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.06<br>Passed <sup>6</sup>                      | Ratio: 2.33<br>Failed <sup>5</sup>                      |
| Hex(00A900) | Ratio: 2.40<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 1.35<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: 3.90<br>AA 18pt <sup>2</sup>                     | Ratio: 5.23<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.15<br>AA 18pt <sup>2</sup>                     |
| Hex(008D00) | Ratio: 3.33<br>AA 18pt <sup>2</sup>                     | Ratio: 2.53<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: 2.01<br>Failed <sup>5</sup>                      | Ratio: 2.81<br>Failed <sup>5</sup>                      | Ratio: 3.77<br>AA 18pt <sup>2</sup>                     | Ratio: 4.37<br>AA 18pt <sup>2</sup>                     |
| Hex(007200) | Ratio: 4.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.57<br>AA 18pt <sup>2</sup>                     | Ratio: 2.65<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 2.67<br>Failed <sup>5</sup>                      | Ratio: 6.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(005800) | Ratio: 6.68<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.76<br>AA 18pt <sup>2</sup>                     | Ratio: 2.79<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>                      | Ratio: 8.77<br>Passed <sup>6</sup>                      |
| Hex(003F00) | Ratio: 9.35<br>Passed <sup>6</sup>                      | Ratio: 7.11<br>Passed <sup>6</sup>                      | Ratio: 5.27<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.90<br>AA 18pt <sup>2</sup>                     | Ratio: 2.81<br>Failed <sup>5</sup>  | Ratio: 1.99<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 12.27<br>Passed <sup>6</sup>                     |
| Hex(002600) | Ratio: 12.53<br>Passed <sup>6</sup>                     | Ratio: 9.52<br>Passed <sup>6</sup>                      | Ratio: 7.06<br>Passed <sup>6</sup>                      | Ratio: 5.23<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.77<br>AA 18pt <sup>2</sup> | Ratio: 2.67<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>                      | Ratio: 1.34<br>Failed <sup>5</sup>                      |                                                         | Ratio: 16.44<br>Passed <sup>6</sup>                     |
| Hex(FFFFFF) | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.73<br>Failed <sup>5</sup>                      | Ratio: 2.33<br>Failed <sup>5</sup>                      | Ratio: 3.15<br>AA 18pt <sup>2</sup>                     | Ratio: 4.37<br>AA 18pt <sup>2</sup> | Ratio: 6.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 8.77<br>Passed <sup>6</sup>                      | Ratio: 12.27<br>Passed <sup>6</sup>                     | Ratio: 16.44<br>Passed <sup>6</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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