

# Converting Colors - WCAG Matrix

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

|             | Hex(FFF606)                                             | Hex(E1DA00)                                             | Hex(C2BE00)                                             | Hex(A4A400)                                             | Hex(878A00)                                             | Hex(6A7000)                                             | Hex(4D5800)                                             | Hex(334100)                                             | Hex(192B00)                                             | Hex(001800)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(FFF606) |                                                         | Ratio: 1.30<br>Failed <sup>5</sup>                      | Ratio: 1.73<br>Failed <sup>5</sup>                      | Ratio: 2.34<br>Failed <sup>5</sup>                      | Ratio: 3.25<br>AA 18pt <sup>2</sup>                     | Ratio: 4.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.80<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 9.72<br>Passed <sup>6</sup>                      | Ratio: 13.29<br>Passed <sup>6</sup>                     | Ratio: 16.31<br>Passed <sup>6</sup>                     |
| Hex(E1DA00) | Ratio: 1.30<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 2.51<br>Failed <sup>5</sup>                      | Ratio: 3.62<br>AA 18pt <sup>2</sup>                     | Ratio: 5.25<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.50<br>Passed <sup>6</sup>                      | Ratio: 10.26<br>Passed <sup>6</sup>                     | Ratio: 12.59<br>Passed <sup>6</sup>                     |
| Hex(C2BE00) | Ratio: 1.73<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>                      | Ratio: 2.71<br>Failed <sup>5</sup>                      | Ratio: 3.93<br>AA 18pt <sup>2</sup>                     | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.69<br>Passed <sup>6</sup>                      | Ratio: 9.43<br>Passed <sup>6</sup>                      |
| Hex(A4A400) | Ratio: 2.34<br>Failed <sup>5</sup>                      | Ratio: 1.80<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>                      | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 5.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(878A00) | Ratio: 3.25<br>AA 18pt <sup>2</sup>                     | Ratio: 2.51<br>Failed <sup>5</sup>                      | Ratio: 1.88<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 2.99<br>Failed <sup>5</sup>                      | Ratio: 4.09<br>AA 18pt <sup>2</sup>                     | Ratio: 5.01<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(6A7000) | Ratio: 4.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.62<br>AA 18pt <sup>2</sup>                     | Ratio: 2.71<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 3.48<br>AA 18pt <sup>2</sup>                     |
| Hex(4D5800) | Ratio: 6.80<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.25<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.93<br>AA 18pt <sup>2</sup>                     | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 2.40<br>Failed <sup>5</sup>                      |
| Hex(334100) | Ratio: 9.72<br>Passed <sup>6</sup>                      | Ratio: 7.50<br>Passed <sup>6</sup>                      | Ratio: 5.62<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 2.99<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.68<br>Failed <sup>5</sup>                      |
| Hex(192B00) | Ratio: 13.29<br>Passed <sup>6</sup>                     | Ratio: 10.26<br>Passed <sup>6</sup>                     | Ratio: 7.69<br>Passed <sup>6</sup>                      | Ratio: 5.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.09<br>AA 18pt <sup>2</sup>                     | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.23<br>Failed <sup>5</sup>                      |
| Hex(001800) | Ratio: 16.31<br>Passed <sup>6</sup>                     | Ratio: 12.59<br>Passed <sup>6</sup>                     | Ratio: 9.43<br>Passed <sup>6</sup>                      | Ratio: 6.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.01<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.48<br>AA 18pt <sup>2</sup>                     | Ratio: 2.40<br>Failed <sup>5</sup>                      | Ratio: 1.68<br>Failed <sup>5</sup>                      | Ratio: 1.23<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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