

# Converting Colors - WCAG Matrix

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

|             | Hex(F2EC74)                                             | Hex(D5D059)                                             | Hex(B8B43F)                                             | Hex(9B9A22)                                             | Hex(7F8000)                                             | Hex(646700)                                             | Hex(4A4F00)                                             | Hex(303800)                                             | Hex(172300)                                             | Hex(000C00)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(F2EC74) |                                                         | Ratio: 1.31<br>Failed <sup>5</sup>                      | Ratio: 1.77<br>Failed <sup>5</sup>                      | Ratio: 2.42<br>Failed <sup>5</sup>                      | Ratio: 3.41<br>AA 18pt <sup>2</sup>                     | Ratio: 4.89<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.07<br>Passed <sup>6</sup>                      | Ratio: 10.07<br>Passed <sup>6</sup>                     | Ratio: 13.33<br>Passed <sup>6</sup>                     | Ratio: 16.17<br>Passed <sup>6</sup>                     |
| Hex(D5D059) | Ratio: 1.31<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.85<br>Failed <sup>5</sup>                      | Ratio: 2.60<br>Failed <sup>5</sup>                      | Ratio: 3.73<br>AA 18pt <sup>2</sup>                     | Ratio: 5.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.68<br>Passed <sup>6</sup>                      | Ratio: 10.18<br>Passed <sup>6</sup>                     | Ratio: 12.35<br>Passed <sup>6</sup>                     |
| Hex(B8B43F) | Ratio: 1.77<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>                      | Ratio: 2.77<br>Failed <sup>5</sup>                      | Ratio: 4.00<br>AA 18pt <sup>2</sup>                     | Ratio: 5.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.55<br>Passed <sup>6</sup>                      | Ratio: 9.16<br>Passed <sup>6</sup>                      |
| Hex(9B9A22) | Ratio: 2.42<br>Failed <sup>5</sup>                      | Ratio: 1.85<br>Failed <sup>5</sup>                      | 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: 2.92<br>Failed <sup>5</sup>                      | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 5.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(7F8000) | Ratio: 3.41<br>AA 18pt <sup>2</sup>                     | Ratio: 2.60<br>Failed <sup>5</sup>                      | Ratio: 1.93<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: 2.95<br>Failed <sup>5</sup>                      | Ratio: 3.91<br>AA 18pt <sup>2</sup>                     | Ratio: 4.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(646700) | Ratio: 4.89<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.73<br>AA 18pt <sup>2</sup>                     | Ratio: 2.77<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: 2.06<br>Failed <sup>5</sup>                      | Ratio: 2.73<br>Failed <sup>5</sup>                      | Ratio: 3.31<br>AA 18pt <sup>2</sup>                     |
| Hex(4A4F00) | Ratio: 7.07<br>Passed <sup>6</sup>                      | Ratio: 5.39<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.00<br>AA 18pt <sup>2</sup>                     | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>                      | Ratio: 2.29<br>Failed <sup>5</sup>                      |
| Hex(303800) | Ratio: 10.07<br>Passed <sup>6</sup>                     | Ratio: 7.68<br>Passed <sup>6</sup>                      | Ratio: 5.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.16<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.61<br>Failed <sup>5</sup>                      |
| Hex(172300) | Ratio: 13.33<br>Passed <sup>6</sup>                     | Ratio: 10.18<br>Passed <sup>6</sup>                     | Ratio: 7.55<br>Passed <sup>6</sup>                      | Ratio: 5.51<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.91<br>AA 18pt <sup>2</sup>                     | Ratio: 2.73<br>Failed <sup>5</sup>                      | Ratio: 1.89<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.21<br>Failed <sup>5</sup>                      |
| Hex(000C00) | Ratio: 16.17<br>Passed <sup>6</sup>                     | Ratio: 12.35<br>Passed <sup>6</sup>                     | Ratio: 9.16<br>Passed <sup>6</sup>                      | Ratio: 6.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.74<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.31<br>AA 18pt <sup>2</sup>                     | Ratio: 2.29<br>Failed <sup>5</sup>                      | Ratio: 1.61<br>Failed <sup>5</sup>                      | Ratio: 1.21<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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