

# Converting Colors - WCAG Matrix

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

|             | Hex(121211)                                             | Hex(272726)                                             | Hex(3C3C3B)                                             | Hex(535352)                                             | Hex(6C6C6B)                                             | Hex(858584)                                                  | Hex(9F9F9E)                                                  | Hex(BABAB9)                                                  | Hex(D6D6D4)                                                  | Hex(F2F2F1)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------|
| Hex(121211) |                                                         | Ratio: 1.25<br>Failed <sup>5</sup>                      | Ratio: 1.70<br>Failed <sup>5</sup>                      | Ratio: 2.43<br>Failed <sup>5</sup>                      | Ratio: 3.57<br>AA 18pt <sup>2</sup>                     | Ratio: 5.07<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup>      | Ratio: 7.08<br>Passed <sup>6</sup>                           | Ratio: 9.65<br>Passed <sup>6</sup>                           | Ratio: 12.88<br>Passed <sup>6</sup>                          | Ratio: 16.73<br>Passed <sup>6</sup>                     |
| Hex(272726) | Ratio: 1.25<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 2.84<br>Failed <sup>5</sup>                      | Ratio: 4.05<br>AA 18pt <sup>2</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup>      | Ratio: 7.70<br>Passed <sup>6</sup>                           | Ratio: 10.27<br>Passed <sup>6</sup>                          | Ratio: 13.35<br>Passed <sup>6</sup>                     |
| Hex(3C3C3B) | Ratio: 1.70<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>                      | Ratio: 2.10<br>Failed <sup>5</sup>                      | Ratio: 2.99<br>Failed <sup>5</sup>                           | Ratio: 4.17<br>AA 18pt <sup>2</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup>      | Ratio: 7.59<br>Passed <sup>6</sup>                           | Ratio: 9.86<br>Passed <sup>6</sup>                      |
| Hex(535352) | Ratio: 2.43<br>Failed <sup>5</sup>                      | Ratio: 1.94<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.46<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                           | Ratio: 2.91<br>Failed <sup>5</sup>                           | Ratio: 3.96<br>AA 18pt <sup>2</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.29<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup>      | Ratio: 6.87<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(6C6C6B) | Ratio: 3.57<br>AA 18pt <sup>2</sup>                     | Ratio: 2.84<br>Failed <sup>5</sup>                      | Ratio: 2.10<br>Failed <sup>5</sup>                      | Ratio: 1.46<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>                           | Ratio: 1.98<br>Failed <sup>5</sup>                           | Ratio: 2.71<br>Failed <sup>5</sup>                           | Ratio: 3.61<br>AA 18pt <sup>2</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(858584) | Ratio: 5.07<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.05<br>AA 18pt <sup>2</sup>                     | Ratio: 2.99<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                                              | Ratio: 1.39<br>Failed <sup>5</sup>                           | Ratio: 1.90<br>Failed <sup>5</sup>                           | Ratio: 2.54<br>Failed <sup>5</sup>                           | Ratio: 3.30<br>AA 18pt <sup>2</sup>                     |
| Hex(9F9F9E) | Ratio: 7.08<br>Passed <sup>6</sup>                      | Ratio: 5.64<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.17<br>AA 18pt <sup>2</sup>                     | Ratio: 2.91<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                           |                                                              | Ratio: 1.36<br>Failed <sup>5</sup>                           | Ratio: 1.82<br>Failed <sup>5</sup>                           | Ratio: 2.36<br>Failed <sup>5</sup>                      |
| Hex(BABAB9) | Ratio: 9.65<br>Passed <sup>6</sup>                      | Ratio: 7.70<br>Passed <sup>6</sup>                      | Ratio: 5.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.96<br>AA 18pt <sup>2</sup>                     | Ratio: 2.71<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>                           | Ratio: 1.36<br>Failed <sup>5</sup>                           |                                                              | Ratio: 1.33<br>Failed <sup>5</sup>                           | Ratio: 1.73<br>Failed <sup>5</sup>                      |
| Hex(D6D6D4) | Ratio: 12.88<br>Passed <sup>6</sup>                     | Ratio: 10.27<br>Passed <sup>6</sup>                     | Ratio: 7.59<br>Passed <sup>6</sup>                      | Ratio: 5.29<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.61<br>AA 18pt <sup>2</sup>                     | Ratio: 2.54<br>Failed <sup>5</sup>                           | Ratio: 1.82<br>Failed <sup>5</sup>                           | Ratio: 1.33<br>Failed <sup>5</sup>                           |                                                              | Ratio: 1.30<br>Failed <sup>5</sup>                      |
| Hex(F2F2F1) | Ratio: 16.73<br>Passed <sup>6</sup>                     | Ratio: 13.35<br>Passed <sup>6</sup>                     | Ratio: 9.86<br>Passed <sup>6</sup>                      | Ratio: 6.87<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.30<br>AA 18pt <sup>2</sup>                          | Ratio: 2.36<br>Failed <sup>5</sup>                           | Ratio: 1.73<br>Failed <sup>5</sup>                           | Ratio: 1.30<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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