

# Converting Colors - WCAG Matrix

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

|             | Hex(EBA5A5)                                             | Hex(CE8B8B)                                             | Hex(B27171)                                             | Hex(965859)                         | Hex(7B4041)                         | Hex(60282B)                                             | Hex(471117)                                             | Hex(2F0000)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(EBA5A5) |                                                         | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>                      | Ratio: 2.73<br>Failed <sup>5</sup>  | Ratio: 3.94<br>AA 18pt <sup>2</sup> | Ratio: 5.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.69<br>Passed <sup>6</sup>                      | Ratio: 9.33<br>Passed <sup>6</sup>                      | Ratio: 10.46<br>Passed <sup>6</sup>                     |
| Hex(CE8B8B) | Ratio: 1.36<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.40<br>Failed <sup>5</sup>                      | Ratio: 2.00<br>Failed <sup>5</sup>  | Ratio: 2.90<br>Failed <sup>5</sup>  | Ratio: 4.19<br>AA 18pt <sup>2</sup>                     | Ratio: 5.65<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.86<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.69<br>Passed <sup>6</sup>                      |
| Hex(B27171) | Ratio: 1.90<br>Failed <sup>5</sup>                      | Ratio: 1.40<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 2.99<br>Failed <sup>5</sup>                      | Ratio: 4.04<br>AA 18pt <sup>2</sup>                     | Ratio: 4.90<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.49<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(965859) | Ratio: 2.73<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: 2.09<br>Failed <sup>5</sup>                      | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 3.42<br>AA 18pt <sup>2</sup>                     | Ratio: 3.84<br>AA 18pt <sup>2</sup>                     |
| Hex(7B4041) | Ratio: 3.94<br>AA 18pt <sup>2</sup>                     | Ratio: 2.90<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>  |                                     | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 1.95<br>Failed <sup>5</sup>                      | Ratio: 2.37<br>Failed <sup>5</sup>                      | Ratio: 2.65<br>Failed <sup>5</sup>                      |
| Hex(60282B) | Ratio: 5.70<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.19<br>AA 18pt <sup>2</sup>                     | Ratio: 2.99<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 1.44<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.64<br>Failed <sup>5</sup>                      | Ratio: 1.84<br>Failed <sup>5</sup>                      |
| Hex(471117) | Ratio: 7.69<br>Passed <sup>6</sup>                      | Ratio: 5.65<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.04<br>AA 18pt <sup>2</sup>                     | Ratio: 2.82<br>Failed <sup>5</sup>  | Ratio: 1.95<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.21<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      |
| Hex(2F0000) | Ratio: 9.33<br>Passed <sup>6</sup>                      | Ratio: 6.86<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.90<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.42<br>AA 18pt <sup>2</sup> | Ratio: 2.37<br>Failed <sup>5</sup>  | Ratio: 1.64<br>Failed <sup>5</sup>                      | Ratio: 1.21<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.12<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 10.46<br>Passed <sup>6</sup>                     | Ratio: 7.69<br>Passed <sup>6</sup>                      | Ratio: 5.49<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.84<br>AA 18pt <sup>2</sup> | Ratio: 2.65<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup>                      | Ratio: 1.36<br>Failed <sup>5</sup>                      | Ratio: 1.12<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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