

# Converting Colors - WCAG Matrix

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

**Hex(E4E3E6)** **Hex(FFFFFF)** **Hex(E3E5E6)** **Hex(808080)** **Hex(000000)**

| <b>Hex(E4E3E6)</b> |                                     | Ratio: 1.28<br>Failed <sup>5</sup>  | Ratio: 1.01<br>Failed <sup>5</sup>  | Ratio: 3.09<br>AA 18pt <sup>2</sup>                     | Ratio: 16.43<br>Passed <sup>6</sup>                     |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| <b>Hex(FFFFFF)</b> | Ratio: 1.28<br>Failed <sup>5</sup>  |                                     | Ratio: 1.26<br>Failed <sup>5</sup>  | Ratio: 3.95<br>AA 18pt <sup>2</sup>                     | Ratio: 21.00<br>Passed <sup>6</sup>                     |
| <b>Hex(E3E5E6)</b> | Ratio: 1.01<br>Failed <sup>5</sup>  | Ratio: 1.26<br>Failed <sup>5</sup>  |                                     | Ratio: 3.13<br>AA 18pt <sup>2</sup>                     | Ratio: 16.62<br>Passed <sup>6</sup>                     |
| <b>Hex(808080)</b> | Ratio: 3.09<br>AA 18pt <sup>2</sup> | Ratio: 3.95<br>AA 18pt <sup>2</sup> | Ratio: 3.13<br>AA 18pt <sup>2</sup> |                                                         | Ratio: 5.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| <b>Hex(000000)</b> | Ratio: 16.43<br>Passed <sup>6</sup> | Ratio: 21.00<br>Passed <sup>6</sup> | Ratio: 16.62<br>Passed <sup>6</sup> | Ratio: 5.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</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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