

# Converting Colors - WCAG Matrix

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

**Hex(467070) Hex(819191) Hex(467046) Hex(404A4A) Hex(C9C9C9) Hex(4A4A4A)**

|             | Hex(467070)                         | Hex(819191)                        | Hex(467046)                         | Hex(404A4A)                                             | Hex(C9C9C9)                                             | Hex(4A4A4A)                                             |
|-------------|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(467070) |                                     | Ratio: 1.68<br>Failed <sup>5</sup> | Ratio: 1.04<br>Failed <sup>5</sup>  | Ratio: 1.66<br>Failed <sup>5</sup>                      | Ratio: 3.33<br>AA 18pt <sup>2</sup>                     | Ratio: 1.61<br>Failed <sup>5</sup>                      |
| Hex(819191) | Ratio: 1.68<br>Failed <sup>5</sup>  |                                    | Ratio: 1.74<br>Failed <sup>5</sup>  | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 2.70<br>Failed <sup>5</sup>                      |
| Hex(467046) | Ratio: 1.04<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup> |                                     | Ratio: 1.60<br>Failed <sup>5</sup>                      | Ratio: 3.46<br>AA 18pt <sup>2</sup>                     | Ratio: 1.55<br>Failed <sup>5</sup>                      |
| Hex(404A4A) | Ratio: 1.66<br>Failed <sup>5</sup>  | Ratio: 2.78<br>Failed <sup>5</sup> | Ratio: 1.60<br>Failed <sup>5</sup>  |                                                         | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.03<br>Failed <sup>5</sup>                      |
| Hex(C9C9C9) | Ratio: 3.33<br>AA 18pt <sup>2</sup> | Ratio: 1.98<br>Failed <sup>5</sup> | Ratio: 3.46<br>AA 18pt <sup>2</sup> | Ratio: 5.52<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 5.35<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(4A4A4A) | Ratio: 1.61<br>Failed <sup>5</sup>  | Ratio: 2.70<br>Failed <sup>5</sup> | Ratio: 1.55<br>Failed <sup>5</sup>  | Ratio: 1.03<br>Failed <sup>5</sup>                      | Ratio: 5.35<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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