

# Converting Colors - WCAG Matrix

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

Hex(80797B) Hex(A69A9D) Hex(7F8079) Hex(403B3C) Hex(800024) Hex(000000)

|             | Hex(80797B)                                             | Hex(A69A9D)                         | Hex(7F8079)                                             | Hex(403B3C)                         | Hex(800024)                         | Hex(000000)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(80797B) |                                                         | Ratio: 1.57<br>Failed <sup>5</sup>  | Ratio: 1.07<br>Failed <sup>5</sup>                      | Ratio: 2.59<br>Failed <sup>5</sup>  | Ratio: 2.54<br>Failed <sup>5</sup>  | Ratio: 4.94<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(A69A9D) | Ratio: 1.57<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.47<br>Failed <sup>5</sup>                      | Ratio: 4.05<br>AA 18pt <sup>2</sup> | Ratio: 3.98<br>AA 18pt <sup>2</sup> | Ratio: 7.73<br>Passed <sup>6</sup>                      |
| Hex(7F8079) | Ratio: 1.07<br>Failed <sup>5</sup>                      | Ratio: 1.47<br>Failed <sup>5</sup>  |                                                         | Ratio: 2.76<br>Failed <sup>5</sup>  | Ratio: 2.71<br>Failed <sup>5</sup>  | Ratio: 5.27<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(403B3C) | Ratio: 2.59<br>Failed <sup>5</sup>                      | Ratio: 4.05<br>AA 18pt <sup>2</sup> | Ratio: 2.76<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.02<br>Failed <sup>5</sup>  | Ratio: 1.91<br>Failed <sup>5</sup>                      |
| Hex(800024) | Ratio: 2.54<br>Failed <sup>5</sup>                      | Ratio: 3.98<br>AA 18pt <sup>2</sup> | Ratio: 2.71<br>Failed <sup>5</sup>                      | Ratio: 1.02<br>Failed <sup>5</sup>  |                                     | Ratio: 1.94<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 4.94<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.73<br>Passed <sup>6</sup>  | Ratio: 5.27<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 1.94<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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