

# Converting Colors - WCAG Matrix

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

Hex(7D747B) Hex(A395A0) Hex(777D74) Hex(40393E) Hex(800063) Hex(000000)

|             | Hex(7D747B)                                             | Hex(A395A0)                         | Hex(777D74)                                             | Hex(40393E)                         | Hex(800063)                         | Hex(000000)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(7D747B) |                                                         | Ratio: 1.58<br>Failed <sup>5</sup>  | Ratio: 1.07<br>Failed <sup>5</sup>                      | Ratio: 2.49<br>Failed <sup>5</sup>  | Ratio: 2.22<br>Failed <sup>5</sup>  | Ratio: 4.66<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(A395A0) | Ratio: 1.58<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.48<br>Failed <sup>5</sup>                      | Ratio: 3.93<br>AA 18pt <sup>2</sup> | Ratio: 3.51<br>AA 18pt <sup>2</sup> | Ratio: 7.36<br>Passed <sup>6</sup>                      |
| Hex(777D74) | Ratio: 1.07<br>Failed <sup>5</sup>                      | Ratio: 1.48<br>Failed <sup>5</sup>  |                                                         | Ratio: 2.65<br>Failed <sup>5</sup>  | Ratio: 2.37<br>Failed <sup>5</sup>  | Ratio: 4.97<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(40393E) | Ratio: 2.49<br>Failed <sup>5</sup>                      | Ratio: 3.93<br>AA 18pt <sup>2</sup> | Ratio: 2.65<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.12<br>Failed <sup>5</sup>  | Ratio: 1.87<br>Failed <sup>5</sup>                      |
| Hex(800063) | Ratio: 2.22<br>Failed <sup>5</sup>                      | Ratio: 3.51<br>AA 18pt <sup>2</sup> | Ratio: 2.37<br>Failed <sup>5</sup>                      | Ratio: 1.12<br>Failed <sup>5</sup>  |                                     | Ratio: 2.10<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 4.66<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.36<br>Passed <sup>6</sup>  | Ratio: 4.97<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.87<br>Failed <sup>5</sup>  | Ratio: 2.10<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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