

# Converting Colors - WCAG Matrix

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

Hex(008299) Hex(00A9C7) Hex(003699) Hex(454B4D) Hex(00778C) Hex(000B0D)

|             | Hex(008299)                         | Hex(00A9C7)                         | Hex(003699)                         | Hex(454B4D)                         | Hex(00778C)                         | Hex(000B0D)                         |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(008299) |                                     | Ratio: 1.61<br>Failed <sup>5</sup>  | Ratio: 2.34<br>Failed <sup>5</sup>  | Ratio: 1.97<br>Failed <sup>5</sup>  | Ratio: 1.16<br>Failed <sup>5</sup>  | Ratio: 4.42<br>AA 18pt <sup>2</sup> |
| Hex(00A9C7) | Ratio: 1.61<br>Failed <sup>5</sup>  |                                     | Ratio: 3.77<br>AA 18pt <sup>2</sup> | Ratio: 3.17<br>AA 18pt <sup>2</sup> | Ratio: 1.87<br>Failed <sup>5</sup>  | Ratio: 7.12<br>Passed <sup>6</sup>  |
| Hex(003699) | Ratio: 2.34<br>Failed <sup>5</sup>  | Ratio: 3.77<br>AA 18pt <sup>2</sup> |                                     | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 1.89<br>Failed <sup>5</sup>  |
| Hex(454B4D) | Ratio: 1.97<br>Failed <sup>5</sup>  | Ratio: 3.17<br>AA 18pt <sup>2</sup> | Ratio: 1.19<br>Failed <sup>5</sup>  |                                     | Ratio: 1.70<br>Failed <sup>5</sup>  | Ratio: 2.25<br>Failed <sup>5</sup>  |
| Hex(00778C) | Ratio: 1.16<br>Failed <sup>5</sup>  | Ratio: 1.87<br>Failed <sup>5</sup>  | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 1.70<br>Failed <sup>5</sup>  |                                     | Ratio: 3.81<br>AA 18pt <sup>2</sup> |
| Hex(000B0D) | Ratio: 4.42<br>AA 18pt <sup>2</sup> | Ratio: 7.12<br>Passed <sup>6</sup>  | Ratio: 1.89<br>Failed <sup>5</sup>  | Ratio: 2.25<br>Failed <sup>5</sup>  | Ratio: 3.81<br>AA 18pt <sup>2</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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