

# Converting Colors - WCAG Matrix

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

|             | Hex(002F71)                        | Hex(0B3671)                        | Hex(173C71)                        | Hex(224371)                        | Hex(2D4971)                        | Hex(395071)                        | Hex(445771)                        | Hex(4F5D71)                        | Hex(5A6471)                        | Hex(666A71)                        |
|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Hex(002F71) |                                    | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.73<br>Failed <sup>5</sup> | Ratio: 1.91<br>Failed <sup>5</sup> | Ratio: 2.13<br>Failed <sup>5</sup> | Ratio: 2.35<br>Failed <sup>5</sup> |
| Hex(0B3671) | Ratio: 1.08<br>Failed <sup>5</sup> |                                    | Ratio: 1.08<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.60<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 2.17<br>Failed <sup>5</sup> |
| Hex(173C71) | Ratio: 1.17<br>Failed <sup>5</sup> | Ratio: 1.08<br>Failed <sup>5</sup> |                                    | Ratio: 1.10<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 2.01<br>Failed <sup>5</sup> |
| Hex(224371) | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> |                                    | Ratio: 1.09<br>Failed <sup>5</sup> | Ratio: 1.21<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> |
| Hex(2D4971) | Ratio: 1.40<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.09<br>Failed <sup>5</sup> |                                    | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.68<br>Failed <sup>5</sup> |
| Hex(395071) | Ratio: 1.56<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.21<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> |                                    | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> |
| Hex(445771) | Ratio: 1.73<br>Failed <sup>5</sup> | Ratio: 1.60<br>Failed <sup>5</sup> | Ratio: 1.48<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> |                                    | Ratio: 1.10<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> |
| Hex(4F5D71) | Ratio: 1.91<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 1.63<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> | Ratio: 1.10<br>Failed <sup>5</sup> |                                    | Ratio: 1.11<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> |
| Hex(5A6471) | Ratio: 2.13<br>Failed <sup>5</sup> | Ratio: 1.96<br>Failed <sup>5</sup> | Ratio: 1.82<br>Failed <sup>5</sup> | Ratio: 1.66<br>Failed <sup>5</sup> | Ratio: 1.52<br>Failed <sup>5</sup> | Ratio: 1.37<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup> |                                    | Ratio: 1.11<br>Failed <sup>5</sup> |
| Hex(666A71) | Ratio: 2.35<br>Failed <sup>5</sup> | Ratio: 2.17<br>Failed <sup>5</sup> | Ratio: 2.01<br>Failed <sup>5</sup> | Ratio: 1.83<br>Failed <sup>5</sup> | Ratio: 1.68<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> | Ratio: 1.11<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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