

# Converting Colors - WCAG Matrix

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

Hex(300028) Hex(3D0033) Hex(003020) Hex(171517) Hex(570048) Hex(D600B2)

|             | Hex(300028)                         | Hex(3D0033)                         | Hex(003020)                         | Hex(171517)                         | Hex(570048)                         | Hex(D600B2)                         |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(300028) |                                     | Ratio: 1.08<br>Failed <sup>5</sup>  | Ratio: 1.25<br>Failed <sup>5</sup>  | Ratio: 1.00<br>Failed <sup>5</sup>  | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 3.89<br>AA 18pt <sup>2</sup> |
| Hex(3D0033) | Ratio: 1.08<br>Failed <sup>5</sup>  |                                     | Ratio: 1.16<br>Failed <sup>5</sup>  | Ratio: 1.08<br>Failed <sup>5</sup>  | Ratio: 1.20<br>Failed <sup>5</sup>  | Ratio: 3.61<br>AA 18pt <sup>2</sup> |
| Hex(003020) | Ratio: 1.25<br>Failed <sup>5</sup>  | Ratio: 1.16<br>Failed <sup>5</sup>  |                                     | Ratio: 1.25<br>Failed <sup>5</sup>  | Ratio: 1.04<br>Failed <sup>5</sup>  | Ratio: 3.12<br>AA 18pt <sup>2</sup> |
| Hex(171517) | Ratio: 1.00<br>Failed <sup>5</sup>  | Ratio: 1.08<br>Failed <sup>5</sup>  | Ratio: 1.25<br>Failed <sup>5</sup>  |                                     | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 3.89<br>AA 18pt <sup>2</sup> |
| Hex(570048) | Ratio: 1.30<br>Failed <sup>5</sup>  | Ratio: 1.20<br>Failed <sup>5</sup>  | Ratio: 1.04<br>Failed <sup>5</sup>  | Ratio: 1.30<br>Failed <sup>5</sup>  |                                     | Ratio: 3.00<br>AA 18pt <sup>2</sup> |
| Hex(D600B2) | Ratio: 3.89<br>AA 18pt <sup>2</sup> | Ratio: 3.61<br>AA 18pt <sup>2</sup> | Ratio: 3.12<br>AA 18pt <sup>2</sup> | Ratio: 3.89<br>AA 18pt <sup>2</sup> | Ratio: 3.00<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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