

# Converting Colors - WCAG Matrix

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

|             | Hex(131213)                         | Hex(1A181A)                         | Hex(131312)                         | Hex(0A090A)                         | Hex(4A004A)                         | Hex(C900C9)                         |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(131213) |                                     | Ratio: 1.06<br>Failed <sup>5</sup>  | Ratio: 1.01<br>Failed <sup>5</sup>  | Ratio: 1.06<br>Failed <sup>5</sup>  | Ratio: 1.24<br>Failed <sup>5</sup>  | Ratio: 3.85<br>AA 18pt <sup>2</sup> |
| Hex(1A181A) | Ratio: 1.06<br>Failed <sup>5</sup>  |                                     | Ratio: 1.05<br>Failed <sup>5</sup>  | Ratio: 1.13<br>Failed <sup>5</sup>  | Ratio: 1.17<br>Failed <sup>5</sup>  | Ratio: 3.64<br>AA 18pt <sup>2</sup> |
| Hex(131312) | Ratio: 1.01<br>Failed <sup>5</sup>  | Ratio: 1.05<br>Failed <sup>5</sup>  |                                     | Ratio: 1.07<br>Failed <sup>5</sup>  | Ratio: 1.23<br>Failed <sup>5</sup>  | Ratio: 3.83<br>AA 18pt <sup>2</sup> |
| Hex(0A090A) | Ratio: 1.06<br>Failed <sup>5</sup>  | Ratio: 1.13<br>Failed <sup>5</sup>  | Ratio: 1.07<br>Failed <sup>5</sup>  |                                     | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 4.10<br>AA 18pt <sup>2</sup> |
| Hex(4A004A) | Ratio: 1.24<br>Failed <sup>5</sup>  | Ratio: 1.17<br>Failed <sup>5</sup>  | Ratio: 1.23<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup>  |                                     | Ratio: 3.11<br>AA 18pt <sup>2</sup> |
| Hex(C900C9) | Ratio: 3.85<br>AA 18pt <sup>2</sup> | Ratio: 3.64<br>AA 18pt <sup>2</sup> | Ratio: 3.83<br>AA 18pt <sup>2</sup> | Ratio: 4.10<br>AA 18pt <sup>2</sup> | Ratio: 3.11<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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