

# Converting Colors - WCAG Matrix

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

Hex(646B67) Hex(4C534F) Hex(353C38) Hex(202623) Hex(08120D) Hex(000000)

|             | Hex(646B67)                         | Hex(4C534F)                        | Hex(353C38)                        | Hex(202623)                        | Hex(08120D)                         | Hex(000000)                         |
|-------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(646B67) |                                     | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 2.07<br>Failed <sup>5</sup> | Ratio: 2.82<br>Failed <sup>5</sup> | Ratio: 3.48<br>AA 18pt <sup>2</sup> | Ratio: 3.84<br>AA 18pt <sup>2</sup> |
| Hex(4C534F) | Ratio: 1.45<br>Failed <sup>5</sup>  |                                    | Ratio: 1.43<br>Failed <sup>5</sup> | Ratio: 1.95<br>Failed <sup>5</sup> | Ratio: 2.41<br>Failed <sup>5</sup>  | Ratio: 2.66<br>Failed <sup>5</sup>  |
| Hex(353C38) | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 1.43<br>Failed <sup>5</sup> |                                    | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.68<br>Failed <sup>5</sup>  | Ratio: 1.85<br>Failed <sup>5</sup>  |
| Hex(202623) | Ratio: 2.82<br>Failed <sup>5</sup>  | Ratio: 1.95<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> |                                    | Ratio: 1.24<br>Failed <sup>5</sup>  | Ratio: 1.36<br>Failed <sup>5</sup>  |
| Hex(08120D) | Ratio: 3.48<br>AA 18pt <sup>2</sup> | Ratio: 2.41<br>Failed <sup>5</sup> | Ratio: 1.68<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup> |                                     | Ratio: 1.10<br>Failed <sup>5</sup>  |
| Hex(000000) | Ratio: 3.84<br>AA 18pt <sup>2</sup> | Ratio: 2.66<br>Failed <sup>5</sup> | Ratio: 1.85<br>Failed <sup>5</sup> | Ratio: 1.36<br>Failed <sup>5</sup> | Ratio: 1.10<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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