

# Converting Colors - WCAG Matrix

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

|              | Hex(02971A)                         | Hex(FFFFFF)                         | Hex(59CF52)                        | Hex(77EB6C)                        | Hex(95FF87)                         | Hex(B2FFA2)                         | Hex(D0FFBE)                         | Hex(EEFFDB)                         | Hex(FFFFFF8)                        |
|--------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Hex(02971A)  |                                     | Ratio: 3.86<br>AA 18pt <sup>2</sup> | Ratio: 1.92<br>Failed <sup>5</sup> | Ratio: 2.55<br>Failed <sup>5</sup> | Ratio: 3.11<br>AA 18pt <sup>2</sup> | Ratio: 3.25<br>AA 18pt <sup>2</sup> | Ratio: 3.44<br>AA 18pt <sup>2</sup> | Ratio: 3.67<br>AA 18pt <sup>2</sup> | Ratio: 3.84<br>AA 18pt <sup>2</sup> |
| Hex(FFFFFF)  | Ratio: 3.86<br>AA 18pt <sup>2</sup> |                                     | Ratio: 2.01<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup>  | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 1.12<br>Failed <sup>5</sup>  | Ratio: 1.05<br>Failed <sup>5</sup>  | Ratio: 1.00<br>Failed <sup>5</sup>  |
| Hex(59CF52)  | Ratio: 1.92<br>Failed <sup>5</sup>  | Ratio: 2.01<br>Failed <sup>5</sup>  |                                    | Ratio: 1.33<br>Failed <sup>5</sup> | Ratio: 1.62<br>Failed <sup>5</sup>  | Ratio: 1.69<br>Failed <sup>5</sup>  | Ratio: 1.79<br>Failed <sup>5</sup>  | Ratio: 1.91<br>Failed <sup>5</sup>  | Ratio: 2.00<br>Failed <sup>5</sup>  |
| Hex(77EB6C)  | Ratio: 2.55<br>Failed <sup>5</sup>  | Ratio: 1.51<br>Failed <sup>5</sup>  | Ratio: 1.33<br>Failed <sup>5</sup> |                                    | Ratio: 1.22<br>Failed <sup>5</sup>  | Ratio: 1.28<br>Failed <sup>5</sup>  | Ratio: 1.35<br>Failed <sup>5</sup>  | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 1.51<br>Failed <sup>5</sup>  |
| Hex(95FF87)  | Ratio: 3.11<br>AA 18pt <sup>2</sup> | Ratio: 1.24<br>Failed <sup>5</sup>  | Ratio: 1.62<br>Failed <sup>5</sup> | Ratio: 1.22<br>Failed <sup>5</sup> |                                     | Ratio: 1.05<br>Failed <sup>5</sup>  | Ratio: 1.11<br>Failed <sup>5</sup>  | Ratio: 1.18<br>Failed <sup>5</sup>  | Ratio: 1.24<br>Failed <sup>5</sup>  |
| Hex(B2FFA2)  | Ratio: 3.25<br>AA 18pt <sup>2</sup> | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 1.69<br>Failed <sup>5</sup> | Ratio: 1.28<br>Failed <sup>5</sup> | Ratio: 1.05<br>Failed <sup>5</sup>  |                                     | Ratio: 1.06<br>Failed <sup>5</sup>  | Ratio: 1.13<br>Failed <sup>5</sup>  | Ratio: 1.18<br>Failed <sup>5</sup>  |
| Hex(D0FFBE)  | Ratio: 3.44<br>AA 18pt <sup>2</sup> | Ratio: 1.12<br>Failed <sup>5</sup>  | Ratio: 1.79<br>Failed <sup>5</sup> | Ratio: 1.35<br>Failed <sup>5</sup> | Ratio: 1.11<br>Failed <sup>5</sup>  | Ratio: 1.06<br>Failed <sup>5</sup>  |                                     | Ratio: 1.07<br>Failed <sup>5</sup>  | Ratio: 1.12<br>Failed <sup>5</sup>  |
| Hex(EEFFDB)  | Ratio: 3.67<br>AA 18pt <sup>2</sup> | Ratio: 1.05<br>Failed <sup>5</sup>  | Ratio: 1.91<br>Failed <sup>5</sup> | Ratio: 1.44<br>Failed <sup>5</sup> | Ratio: 1.18<br>Failed <sup>5</sup>  | Ratio: 1.13<br>Failed <sup>5</sup>  | Ratio: 1.07<br>Failed <sup>5</sup>  |                                     | Ratio: 1.05<br>Failed <sup>5</sup>  |
| Hex(FFFFFF8) | Ratio: 3.84<br>AA 18pt <sup>2</sup> | Ratio: 1.00<br>Failed <sup>5</sup>  | Ratio: 2.00<br>Failed <sup>5</sup> | Ratio: 1.51<br>Failed <sup>5</sup> | Ratio: 1.24<br>Failed <sup>5</sup>  | Ratio: 1.18<br>Failed <sup>5</sup>  | Ratio: 1.12<br>Failed <sup>5</sup>  | Ratio: 1.05<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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