# Converting Colors - WCAG Matrix

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

| | Hex(00FFFF) | Hex(B3FFFF) | Hex(00FF00) | Hex(528080) | Hex(000000) | Hex(808080) |
|---|---|---|---|---|---|---|
| **Hex(00FFFF)** | | Ratio: 1.11 Failed [5] | Ratio: 1.09 Failed [5] | Ratio: 3.52 AA 18pt [2] | Ratio: 16.75 Passed [6] | Ratio: 3.15 AA 18pt [2] |
| **Hex(B3FFFF)** | Ratio: 1.11 Failed [5] | | Ratio: 1.22 Failed [5] | Ratio: 3.92 AA 18pt [2] | Ratio: 18.66 Passed [6] | Ratio: 3.51 AA 18pt [2] |
| **Hex(00FF00)** | Ratio: 1.09 Failed [5] | Ratio: 1.22 Failed [5] | | Ratio: 3.22 AA 18pt [2] | Ratio: 15.30 Passed [6] | Ratio: 2.88 Failed [5] |
| **Hex(528080)** | Ratio: 3.52 AA 18pt [2] | Ratio: 3.92 AA 18pt [2] | Ratio: 3.22 AA 18pt [2] | | Ratio: 4.76 AA [1] AAA 18pt [4] | Ratio: 1.12 Failed [5] |
| **Hex(000000)** | Ratio: 16.75 Passed [6] | Ratio: 18.66 Passed [6] | Ratio: 15.30 Passed [6] | Ratio: 4.76 AA [1] AAA 18pt [4] | | Ratio: 5.32 AA [1] AAA 18pt [4] |
| **Hex(808080)** | Ratio: 3.15 AA 18pt [2] | Ratio: 3.51 AA 18pt [2] | Ratio: 2.88 Failed [5] | Ratio: 1.12 Failed [5] | Ratio: 5.32 AA [1] AAA 18pt [4] | |

Details can be found at https://www.w3.org/TR/WCAG20/.

[1] AA
AA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

[2] AA 18pt
AA level for large text above 18pt.

[3] AAA
AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

[4] AAA 18pt
AAA level for large text above 18pt.

[5] Failed
Fails to comply with the Web Content Accessibility Guidelines (WCAG) 2.0.

[6] Passed
Passes the AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for all text sizes.

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