# Converting Colors - WCAG Matrix

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

| | Hex(FFFAFB) | Hex(FFFCFD) | Hex(FEFAFF) | Hex(807E7E) | Hex(000000) | Hex(808080) |
|---|---|---|---|---|---|---|
| **Hex(FFFAFB)** | | Ratio: 1.01<br>Failed [5] | Ratio: 1.00<br>Failed [5] | Ratio: 3.90<br>AA 18pt [2] | Ratio: 20.32<br>Passed [6] | Ratio: 3.82<br>AA 18pt [2] |
| **Hex(FFFCFD)** | Ratio: 1.01<br>Failed [5] | | Ratio: 1.01<br>Failed [5] | Ratio: 3.96<br>AA 18pt [2] | Ratio: 20.59<br>Passed [6] | Ratio: 3.87<br>AA 18pt [2] |
| **Hex(FEFAFF)** | Ratio: 1.00<br>Failed [5] | Ratio: 1.01<br>Failed [5] | | Ratio: 3.91<br>AA 18pt [2] | Ratio: 20.33<br>Passed [6] | Ratio: 3.82<br>AA 18pt [2] |
| **Hex(807E7E)** | Ratio: 3.90<br>AA 18pt [2] | Ratio: 3.96<br>AA 18pt [2] | Ratio: 3.91<br>AA 18pt [2] | | Ratio: 5.20<br>AA [1]<br>AAA 18pt [4] | Ratio: 1.02<br>Failed [5] |
| **Hex(000000)** | Ratio: 20.32<br>Passed [6] | Ratio: 20.59<br>Passed [6] | Ratio: 20.33<br>Passed [6] | Ratio: 5.20<br>AA [1]<br>AAA 18pt [4] | | Ratio: 5.32<br>AA [1]<br>AAA 18pt [4] |
| **Hex(808080)** | Ratio: 3.82<br>AA 18pt [2] | Ratio: 3.87<br>AA 18pt [2] | Ratio: 3.82<br>AA 18pt [2] | Ratio: 1.02<br>Failed [5] | Ratio: 5.32<br>AA [1]<br>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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