

# Converting Colors - WCAG Matrix

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

|             | Hex(FC8CBD)                                             | Hex(DE70A3)                                             | Hex(C25787)                                             | Hex(A63D6E)                         | Hex(8A2157)                         | Hex(6E0040)                                                  | Hex(520029)                                             | Hex(380014)                                             | Hex(1A0000)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(FC8CBD) |                                                         | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.92<br>Failed <sup>5</sup>                      | Ratio: 2.74<br>Failed <sup>5</sup>  | Ratio: 3.95<br>AA 18pt <sup>2</sup> | Ratio: 5.54<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup>      | Ratio: 6.92<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 8.17<br>Passed <sup>6</sup>                      | Ratio: 9.22<br>Passed <sup>6</sup>                      | Ratio: 9.63<br>Passed <sup>6</sup>                      |
| Hex(DE70A3) | Ratio: 1.38<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>  | Ratio: 2.85<br>Failed <sup>5</sup>  | Ratio: 4.00<br>AA 18pt <sup>2</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.00<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.90<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.66<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.95<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(C25787) | Ratio: 1.92<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 2.88<br>Failed <sup>5</sup>                           | Ratio: 3.60<br>AA 18pt <sup>2</sup>                     | Ratio: 4.25<br>AA 18pt <sup>2</sup>                     | Ratio: 4.80<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.01<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(A63D6E) | Ratio: 2.74<br>Failed <sup>5</sup>                      | Ratio: 1.98<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.02<br>Failed <sup>5</sup>                           | Ratio: 2.53<br>Failed <sup>5</sup>                      | Ratio: 2.98<br>Failed <sup>5</sup>                      | Ratio: 3.37<br>AA 18pt <sup>2</sup>                     | Ratio: 3.51<br>AA 18pt <sup>2</sup>                     |
| Hex(8A2157) | Ratio: 3.95<br>AA 18pt <sup>2</sup>                     | Ratio: 2.85<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>  |                                     | Ratio: 1.40<br>Failed <sup>5</sup>                           | Ratio: 1.75<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 2.33<br>Failed <sup>5</sup>                      | Ratio: 2.44<br>Failed <sup>5</sup>                      |
| Hex(6E0040) | Ratio: 5.54<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.00<br>AA 18pt <sup>2</sup>                     | Ratio: 2.88<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 1.40<br>Failed <sup>5</sup>  |                                                              | Ratio: 1.25<br>Failed <sup>5</sup>                      | Ratio: 1.47<br>Failed <sup>5</sup>                      | Ratio: 1.66<br>Failed <sup>5</sup>                      | Ratio: 1.74<br>Failed <sup>5</sup>                      |
| Hex(520029) | Ratio: 6.92<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.00<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.60<br>AA 18pt <sup>2</sup>                     | Ratio: 2.53<br>Failed <sup>5</sup>  | Ratio: 1.75<br>Failed <sup>5</sup>  | Ratio: 1.25<br>Failed <sup>5</sup>                           |                                                         | Ratio: 1.18<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.39<br>Failed <sup>5</sup>                      |
| Hex(380014) | Ratio: 8.17<br>Passed <sup>6</sup>                      | Ratio: 5.90<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.25<br>AA 18pt <sup>2</sup>                     | Ratio: 2.98<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 1.47<br>Failed <sup>5</sup>                           | Ratio: 1.18<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.13<br>Failed <sup>5</sup>                      | Ratio: 1.18<br>Failed <sup>5</sup>                      |
| Hex(1A0000) | Ratio: 9.22<br>Passed <sup>6</sup>                      | Ratio: 6.66<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.80<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.37<br>AA 18pt <sup>2</sup> | Ratio: 2.33<br>Failed <sup>5</sup>  | Ratio: 1.66<br>Failed <sup>5</sup>                           | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.13<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.04<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 9.63<br>Passed <sup>6</sup>                      | Ratio: 6.95<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.01<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.51<br>AA 18pt <sup>2</sup> | Ratio: 2.44<br>Failed <sup>5</sup>  | Ratio: 1.74<br>Failed <sup>5</sup>                           | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.18<br>Failed <sup>5</sup>                      | Ratio: 1.04<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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