

# Converting Colors - WCAG Matrix

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

|             | Hex(19097E)                                             | Hex(FFF4FF)                                             | Hex(5A3AB4)                                             | Hex(7752D0)                                             | Hex(936BED)                         | Hex(B085FF)                                             | Hex(CDA0FF)                         | Hex(EBBBFF)                                             | Hex(FFD7FF)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(19097E) |                                                         | Ratio: 14.21<br>Passed <sup>6</sup>                     | Ratio: 1.95<br>Failed <sup>5</sup>                      | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 4.03<br>AA 18pt <sup>2</sup> | Ratio: 5.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.29<br>Passed <sup>6</sup>  | Ratio: 9.47<br>Passed <sup>6</sup>                      | Ratio: 11.88<br>Passed <sup>6</sup>                     |
| Hex(FFF4FF) | Ratio: 14.21<br>Passed <sup>6</sup>                     |                                                         | Ratio: 7.28<br>Passed <sup>6</sup>                      | Ratio: 5.03<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.53<br>AA 18pt <sup>2</sup> | Ratio: 2.57<br>Failed <sup>5</sup>                      | Ratio: 1.95<br>Failed <sup>5</sup>  | Ratio: 1.50<br>Failed <sup>5</sup>                      | Ratio: 1.20<br>Failed <sup>5</sup>                      |
| Hex(5A3AB4) | Ratio: 1.95<br>Failed <sup>5</sup>                      | Ratio: 7.28<br>Passed <sup>6</sup>                      |                                                         | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 3.73<br>AA 18pt <sup>2</sup> | Ratio: 4.85<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(7752D0) | Ratio: 2.82<br>Failed <sup>5</sup>                      | Ratio: 5.03<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.45<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 2.58<br>Failed <sup>5</sup>  | Ratio: 3.35<br>AA 18pt <sup>2</sup>                     | Ratio: 4.21<br>AA 18pt <sup>2</sup>                     |
| Hex(936BED) | Ratio: 4.03<br>AA 18pt <sup>2</sup>                     | Ratio: 3.53<br>AA 18pt <sup>2</sup>                     | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.81<br>Failed <sup>5</sup>  | Ratio: 2.35<br>Failed <sup>5</sup>                      | Ratio: 2.95<br>Failed <sup>5</sup>                      |
| Hex(B085FF) | Ratio: 5.53<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 2.57<br>Failed <sup>5</sup>                      | Ratio: 2.83<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.37<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 2.15<br>Failed <sup>5</sup>                      |
| Hex(CDA0FF) | Ratio: 7.29<br>Passed <sup>6</sup>                      | Ratio: 1.95<br>Failed <sup>5</sup>                      | Ratio: 3.73<br>AA 18pt <sup>2</sup>                     | Ratio: 2.58<br>Failed <sup>5</sup>                      | Ratio: 1.81<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.30<br>Failed <sup>5</sup>                      | Ratio: 1.63<br>Failed <sup>5</sup>                      |
| Hex(EBBBFF) | Ratio: 9.47<br>Passed <sup>6</sup>                      | Ratio: 1.50<br>Failed <sup>5</sup>                      | Ratio: 4.85<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.35<br>AA 18pt <sup>2</sup>                     | Ratio: 2.35<br>Failed <sup>5</sup>  | Ratio: 1.71<br>Failed <sup>5</sup>                      | Ratio: 1.30<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.25<br>Failed <sup>5</sup>                      |
| Hex(FFD7FF) | Ratio: 11.88<br>Passed <sup>6</sup>                     | Ratio: 1.20<br>Failed <sup>5</sup>                      | Ratio: 6.08<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.21<br>AA 18pt <sup>2</sup>                     | Ratio: 2.95<br>Failed <sup>5</sup>  | Ratio: 2.15<br>Failed <sup>5</sup>                      | Ratio: 1.63<br>Failed <sup>5</sup>  | Ratio: 1.25<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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