

# Converting Colors - WCAG Matrix

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

|             | Hex(9FA0EC)                                             | Hex(8486D0)                                             | Hex(696DB4)                         | Hex(4E5499)                         | Hex(343D7F)                         | Hex(162865)                                             | Hex(00144D)                                             | Hex(000036)                                             | Hex(00021F)                                             | Hex(000003)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(9FA0EC) |                                                         | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.96<br>Failed <sup>5</sup>  | Ratio: 2.86<br>Failed <sup>5</sup>  | Ratio: 4.11<br>AA 18pt <sup>2</sup> | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.22<br>Passed <sup>6</sup>                      | Ratio: 8.27<br>Passed <sup>6</sup>                      | Ratio: 8.47<br>Passed <sup>6</sup>                      | Ratio: 8.70<br>Passed <sup>6</sup>                      |
| Hex(8486D0) | Ratio: 1.38<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.42<br>Failed <sup>5</sup>  | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 2.97<br>Failed <sup>5</sup>  | Ratio: 4.13<br>AA 18pt <sup>2</sup>                     | Ratio: 5.22<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.13<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.29<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(696DB4) | Ratio: 1.96<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.46<br>Failed <sup>5</sup>  | Ratio: 2.10<br>Failed <sup>5</sup>  | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 3.68<br>AA 18pt <sup>2</sup>                     | Ratio: 4.22<br>AA 18pt <sup>2</sup>                     | Ratio: 4.32<br>AA 18pt <sup>2</sup>                     | Ratio: 4.44<br>AA 18pt <sup>2</sup>                     |
| Hex(4E5499) | Ratio: 2.86<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 1.46<br>Failed <sup>5</sup>  |                                     | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.00<br>Failed <sup>5</sup>                      | Ratio: 2.53<br>Failed <sup>5</sup>                      | Ratio: 2.90<br>Failed <sup>5</sup>                      | Ratio: 2.97<br>Failed <sup>5</sup>                      | Ratio: 3.05<br>AA 18pt <sup>2</sup>                     |
| Hex(343D7F) | Ratio: 4.11<br>AA 18pt <sup>2</sup>                     | Ratio: 2.97<br>Failed <sup>5</sup>                      | Ratio: 2.10<br>Failed <sup>5</sup>  | Ratio: 1.44<br>Failed <sup>5</sup>  |                                     | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 1.76<br>Failed <sup>5</sup>                      | Ratio: 2.01<br>Failed <sup>5</sup>                      | Ratio: 2.06<br>Failed <sup>5</sup>                      | Ratio: 2.12<br>Failed <sup>5</sup>                      |
| Hex(162865) | Ratio: 5.71<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.13<br>AA 18pt <sup>2</sup>                     | Ratio: 2.92<br>Failed <sup>5</sup>  | Ratio: 2.00<br>Failed <sup>5</sup>  | Ratio: 1.39<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.26<br>Failed <sup>5</sup>                      | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 1.48<br>Failed <sup>5</sup>                      | Ratio: 1.52<br>Failed <sup>5</sup>                      |
| Hex(00144D) | Ratio: 7.22<br>Passed <sup>6</sup>                      | Ratio: 5.22<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.68<br>AA 18pt <sup>2</sup> | Ratio: 2.53<br>Failed <sup>5</sup>  | Ratio: 1.76<br>Failed <sup>5</sup>  | Ratio: 1.26<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.15<br>Failed <sup>5</sup>                      | Ratio: 1.17<br>Failed <sup>5</sup>                      | Ratio: 1.21<br>Failed <sup>5</sup>                      |
| Hex(000036) | Ratio: 8.27<br>Passed <sup>6</sup>                      | Ratio: 5.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.22<br>AA 18pt <sup>2</sup> | Ratio: 2.90<br>Failed <sup>5</sup>  | Ratio: 2.01<br>Failed <sup>5</sup>  | Ratio: 1.45<br>Failed <sup>5</sup>                      | Ratio: 1.15<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.02<br>Failed <sup>5</sup>                      | Ratio: 1.05<br>Failed <sup>5</sup>                      |
| Hex(00021F) | Ratio: 8.47<br>Passed <sup>6</sup>                      | Ratio: 6.13<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.32<br>AA 18pt <sup>2</sup> | Ratio: 2.97<br>Failed <sup>5</sup>  | Ratio: 2.06<br>Failed <sup>5</sup>  | Ratio: 1.48<br>Failed <sup>5</sup>                      | Ratio: 1.17<br>Failed <sup>5</sup>                      | Ratio: 1.02<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.03<br>Failed <sup>5</sup>                      |
| Hex(000003) | Ratio: 8.70<br>Passed <sup>6</sup>                      | Ratio: 6.29<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.44<br>AA 18pt <sup>2</sup> | Ratio: 3.05<br>AA 18pt <sup>2</sup> | Ratio: 2.12<br>Failed <sup>5</sup>  | Ratio: 1.52<br>Failed <sup>5</sup>                      | Ratio: 1.21<br>Failed <sup>5</sup>                      | Ratio: 1.05<br>Failed <sup>5</sup>                      | Ratio: 1.03<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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