

# Converting Colors - WCAG Matrix

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

|             | Hex(ED7DE8)                                             | Hex(D062CC)                                             | Hex(B346B0)                         | Hex(972995)                         | Hex(7B007B)                         | Hex(600062)                                             | Hex(450049)                                             | Hex(2E0032)                                             | Hex(01001C)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(ED7DE8) |                                                         | Ratio: 1.38<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>  | Ratio: 2.84<br>Failed <sup>5</sup>  | Ratio: 4.09<br>AA 18pt <sup>2</sup> | Ratio: 5.20<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.45<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.49<br>Passed <sup>6</sup>                      | Ratio: 8.55<br>Passed <sup>6</sup>                      | Ratio: 8.70<br>Passed <sup>6</sup>                      |
| Hex(D062CC) | Ratio: 1.38<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 2.05<br>Failed <sup>5</sup>  | Ratio: 2.96<br>Failed <sup>5</sup>  | Ratio: 3.76<br>AA 18pt <sup>2</sup>                     | Ratio: 4.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.42<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.19<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.30<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(B346B0) | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 1.43<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.08<br>Failed <sup>5</sup>  | Ratio: 2.64<br>Failed <sup>5</sup>                      | Ratio: 3.28<br>AA 18pt <sup>2</sup>                     | Ratio: 3.80<br>AA 18pt <sup>2</sup>                     | Ratio: 4.34<br>AA 18pt <sup>2</sup>                     | Ratio: 4.42<br>AA 18pt <sup>2</sup>                     |
| Hex(972995) | Ratio: 2.84<br>Failed <sup>5</sup>                      | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>  |                                     | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 1.83<br>Failed <sup>5</sup>                      | Ratio: 2.27<br>Failed <sup>5</sup>                      | Ratio: 2.64<br>Failed <sup>5</sup>                      | Ratio: 3.01<br>AA 18pt <sup>2</sup>                     | Ratio: 3.07<br>AA 18pt <sup>2</sup>                     |
| Hex(7B007B) | Ratio: 4.09<br>AA 18pt <sup>2</sup>                     | Ratio: 2.96<br>Failed <sup>5</sup>                      | Ratio: 2.08<br>Failed <sup>5</sup>  | Ratio: 1.44<br>Failed <sup>5</sup>  |                                     | Ratio: 1.27<br>Failed <sup>5</sup>                      | Ratio: 1.58<br>Failed <sup>5</sup>                      | Ratio: 1.83<br>Failed <sup>5</sup>                      | Ratio: 2.09<br>Failed <sup>5</sup>                      | Ratio: 2.13<br>Failed <sup>5</sup>                      |
| Hex(600062) | Ratio: 5.20<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.76<br>AA 18pt <sup>2</sup>                     | Ratio: 2.64<br>Failed <sup>5</sup>  | Ratio: 1.83<br>Failed <sup>5</sup>  | Ratio: 1.27<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.24<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 1.64<br>Failed <sup>5</sup>                      | Ratio: 1.67<br>Failed <sup>5</sup>                      |
| Hex(450049) | Ratio: 6.45<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.67<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.28<br>AA 18pt <sup>2</sup> | Ratio: 2.27<br>Failed <sup>5</sup>  | Ratio: 1.58<br>Failed <sup>5</sup>  | Ratio: 1.24<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.16<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |
| Hex(2E0032) | Ratio: 7.49<br>Passed <sup>6</sup>                      | Ratio: 5.42<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.80<br>AA 18pt <sup>2</sup> | Ratio: 2.64<br>Failed <sup>5</sup>  | Ratio: 1.83<br>Failed <sup>5</sup>  | Ratio: 1.44<br>Failed <sup>5</sup>                      | Ratio: 1.16<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.14<br>Failed <sup>5</sup>                      | Ratio: 1.16<br>Failed <sup>5</sup>                      |
| Hex(01001C) | Ratio: 8.55<br>Passed <sup>6</sup>                      | Ratio: 6.19<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.34<br>AA 18pt <sup>2</sup> | Ratio: 3.01<br>AA 18pt <sup>2</sup> | Ratio: 2.09<br>Failed <sup>5</sup>  | Ratio: 1.64<br>Failed <sup>5</sup>                      | Ratio: 1.33<br>Failed <sup>5</sup>                      | Ratio: 1.14<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.02<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 8.70<br>Passed <sup>6</sup>                      | Ratio: 6.30<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.42<br>AA 18pt <sup>2</sup> | Ratio: 3.07<br>AA 18pt <sup>2</sup> | Ratio: 2.13<br>Failed <sup>5</sup>  | Ratio: 1.67<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.16<br>Failed <sup>5</sup>                      | Ratio: 1.02<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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