

# Converting Colors - WCAG Matrix

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

|             | Hex(FF9393)                                             | Hex(E17879)                                             | Hex(C35E60)                                             | Hex(A64449)                         | Hex(892B32)                         | Hex(6D0E1D)                                             | Hex(510005)                                             | Hex(370001)                                             | Hex(120000)                                             | Hex(000000)                                             |
|-------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(FF9393) |                                                         | Ratio: 1.37<br>Failed <sup>5</sup>                      | Ratio: 1.93<br>Failed <sup>5</sup>                      | Ratio: 2.78<br>Failed <sup>5</sup>  | Ratio: 4.01<br>AA 18pt <sup>2</sup> | Ratio: 5.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.28<br>Passed <sup>6</sup>                      | Ratio: 8.47<br>Passed <sup>6</sup>                      | Ratio: 9.60<br>Passed <sup>6</sup>                      | Ratio: 9.85<br>Passed <sup>6</sup>                      |
| Hex(E17879) | Ratio: 1.37<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.41<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>  | Ratio: 2.92<br>Failed <sup>5</sup>  | Ratio: 4.14<br>AA 18pt <sup>2</sup>                     | Ratio: 5.30<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 7.16<br>Passed <sup>6</sup>                      |
| Hex(C35E60) | Ratio: 1.93<br>Failed <sup>5</sup>                      | Ratio: 1.41<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.07<br>Failed <sup>5</sup>  | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 3.77<br>AA 18pt <sup>2</sup>                     | Ratio: 4.38<br>AA 18pt <sup>2</sup>                     | Ratio: 4.96<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 5.09<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(A64449) | Ratio: 2.78<br>Failed <sup>5</sup>                      | Ratio: 2.02<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.44<br>Failed <sup>5</sup>  | Ratio: 2.05<br>Failed <sup>5</sup>                      | Ratio: 2.62<br>Failed <sup>5</sup>                      | Ratio: 3.05<br>AA 18pt <sup>2</sup>                     | Ratio: 3.46<br>AA 18pt <sup>2</sup>                     | Ratio: 3.54<br>AA 18pt <sup>2</sup>                     |
| Hex(892B32) | Ratio: 4.01<br>AA 18pt <sup>2</sup>                     | Ratio: 2.92<br>Failed <sup>5</sup>                      | Ratio: 2.07<br>Failed <sup>5</sup>                      | Ratio: 1.44<br>Failed <sup>5</sup>  |                                     | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 1.82<br>Failed <sup>5</sup>                      | Ratio: 2.11<br>Failed <sup>5</sup>                      | Ratio: 2.39<br>Failed <sup>5</sup>                      | Ratio: 2.46<br>Failed <sup>5</sup>                      |
| Hex(6D0E1D) | Ratio: 5.69<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.14<br>AA 18pt <sup>2</sup>                     | Ratio: 2.94<br>Failed <sup>5</sup>                      | Ratio: 2.05<br>Failed <sup>5</sup>  | Ratio: 1.42<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.28<br>Failed <sup>5</sup>                      | Ratio: 1.49<br>Failed <sup>5</sup>                      | Ratio: 1.69<br>Failed <sup>5</sup>                      | Ratio: 1.73<br>Failed <sup>5</sup>                      |
| Hex(510005) | Ratio: 7.28<br>Passed <sup>6</sup>                      | Ratio: 5.30<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.77<br>AA 18pt <sup>2</sup>                     | Ratio: 2.62<br>Failed <sup>5</sup>  | Ratio: 1.82<br>Failed <sup>5</sup>  | Ratio: 1.28<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.16<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      |
| Hex(370001) | Ratio: 8.47<br>Passed <sup>6</sup>                      | Ratio: 6.16<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.38<br>AA 18pt <sup>2</sup>                     | Ratio: 3.05<br>AA 18pt <sup>2</sup> | Ratio: 2.11<br>Failed <sup>5</sup>  | Ratio: 1.49<br>Failed <sup>5</sup>                      | Ratio: 1.16<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.13<br>Failed <sup>5</sup>                      | Ratio: 1.16<br>Failed <sup>5</sup>                      |
| Hex(120000) | Ratio: 9.60<br>Passed <sup>6</sup>                      | Ratio: 6.98<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.96<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.46<br>AA 18pt <sup>2</sup> | Ratio: 2.39<br>Failed <sup>5</sup>  | Ratio: 1.69<br>Failed <sup>5</sup>                      | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.13<br>Failed <sup>5</sup>                      |                                                         | Ratio: 1.03<br>Failed <sup>5</sup>                      |
| Hex(000000) | Ratio: 9.85<br>Passed <sup>6</sup>                      | Ratio: 7.16<br>Passed <sup>6</sup>                      | Ratio: 5.09<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.54<br>AA 18pt <sup>2</sup> | Ratio: 2.46<br>Failed <sup>5</sup>  | Ratio: 1.73<br>Failed <sup>5</sup>                      | Ratio: 1.35<br>Failed <sup>5</sup>                      | Ratio: 1.16<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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