

# Converting Colors - WCAG Matrix

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

Hex(174824) Hex(4B5E51) Hex(3B4817) Hex(253028) Hex(B0B0B0) Hex(303030)

|             | Hex(174824)                                             | Hex(4B5E51)                         | Hex(3B4817)                                             | Hex(253028)                                             | Hex(B0B0B0)                                             | Hex(303030)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Hex(174824) |                                                         | Ratio: 1.52<br>Failed <sup>5</sup>  | Ratio: 1.07<br>Failed <sup>5</sup>                      | Ratio: 1.30<br>Failed <sup>5</sup>                      | Ratio: 4.87<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.25<br>Failed <sup>5</sup>                      |
| Hex(4B5E51) | Ratio: 1.52<br>Failed <sup>5</sup>                      |                                     | Ratio: 1.42<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>                      | Ratio: 3.21<br>AA 18pt <sup>2</sup>                     | Ratio: 1.90<br>Failed <sup>5</sup>                      |
| Hex(3B4817) | Ratio: 1.07<br>Failed <sup>5</sup>                      | Ratio: 1.42<br>Failed <sup>5</sup>  |                                                         | Ratio: 1.39<br>Failed <sup>5</sup>                      | Ratio: 4.56<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.34<br>Failed <sup>5</sup>                      |
| Hex(253028) | Ratio: 1.30<br>Failed <sup>5</sup>                      | Ratio: 1.97<br>Failed <sup>5</sup>  | Ratio: 1.39<br>Failed <sup>5</sup>                      |                                                         | Ratio: 6.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 1.04<br>Failed <sup>5</sup>                      |
| Hex(B0B0B0) | Ratio: 4.87<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 3.21<br>AA 18pt <sup>2</sup> | Ratio: 4.56<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 6.32<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |                                                         | Ratio: 6.09<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(303030) | Ratio: 1.25<br>Failed <sup>5</sup>                      | Ratio: 1.90<br>Failed <sup>5</sup>  | Ratio: 1.34<br>Failed <sup>5</sup>                      | Ratio: 1.04<br>Failed <sup>5</sup>                      | Ratio: 6.09<br>AA <sup>1</sup><br>AAA 18pt <sup>4</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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