

Converting Colors - WCAG Matrix

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

| | Hex(FF45D7) | Hex(E018BB) | Hex(C200A0) | Hex(A40085) | Hex(87006C) | Hex(6A0053) | Hex(4E003C) | Hex(310025) | Hex(06000C) | Hex(000000) |
|-------------|---|---|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---|---|---|---|
| Hex(FF45D7) | | Ratio: 1.41 Failed ⁵ | Ratio: 1.86 Failed ⁵ | Ratio: 2.43 Failed ⁵ | Ratio: 3.15 AA 18pt ² | Ratio: 4.08 AA 18pt ² | Ratio: 5.10 AA ¹ AAA 18pt ⁴ | Ratio: 6.12 AA ¹ AAA 18pt ⁴ | Ratio: 6.99 AA ¹ AAA 18pt ⁴ | Ratio: 7.08 Passed ⁶ |
| Hex(E018BB) | Ratio: 1.41 Failed ⁵ | | Ratio: 1.32 Failed ⁵ | Ratio: 1.72 Failed ⁵ | Ratio: 2.23 Failed ⁵ | Ratio: 2.89 Failed ⁵ | Ratio: 3.61 AA 18pt ² | Ratio: 4.34 AA 18pt ² | Ratio: 4.95 AA ¹ AAA 18pt ⁴ | Ratio: 5.02 AA ¹ AAA 18pt ⁴ |
| Hex(C200A0) | Ratio: 1.86 Failed ⁵ | Ratio: 1.32 Failed ⁵ | | Ratio: 1.30 Failed ⁵ | Ratio: 1.69 Failed ⁵ | Ratio: 2.19 Failed ⁵ | Ratio: 2.74 Failed ⁵ | Ratio: 3.28 AA 18pt ² | Ratio: 3.75 AA 18pt ² | Ratio: 3.80 AA 18pt ² |
| Hex(A40085) | Ratio: 2.43 Failed ⁵ | Ratio: 1.72 Failed ⁵ | Ratio: 1.30 Failed ⁵ | | Ratio: 1.30 Failed ⁵ | Ratio: 1.68 Failed ⁵ | Ratio: 2.10 Failed ⁵ | Ratio: 2.52 Failed ⁵ | Ratio: 2.88 Failed ⁵ | Ratio: 2.92 Failed ⁵ |
| Hex(87006C) | Ratio: 3.15 AA 18pt ² | Ratio: 2.23 Failed ⁵ | Ratio: 1.69 Failed ⁵ | Ratio: 1.30 Failed ⁵ | | Ratio: 1.29 Failed ⁵ | Ratio: 1.62 Failed ⁵ | Ratio: 1.94 Failed ⁵ | Ratio: 2.22 Failed ⁵ | Ratio: 2.25 Failed ⁵ |
| Hex(6A0053) | Ratio: 4.08 AA 18pt ² | Ratio: 2.89 Failed ⁵ | Ratio: 2.19 Failed ⁵ | Ratio: 1.68 Failed ⁵ | Ratio: 1.29 Failed ⁵ | | Ratio: 1.25 Failed ⁵ | Ratio: 1.50 Failed ⁵ | Ratio: 1.72 Failed ⁵ | Ratio: 1.74 Failed ⁵ |
| Hex(4E003C) | Ratio: 5.10 AA ¹ AAA 18pt ⁴ | Ratio: 3.61 AA 18pt ² | Ratio: 2.74 Failed ⁵ | Ratio: 2.10 Failed ⁵ | Ratio: 1.62 Failed ⁵ | Ratio: 1.25 Failed ⁵ | | Ratio: 1.20 Failed ⁵ | Ratio: 1.37 Failed ⁵ | Ratio: 1.39 Failed ⁵ |
| Hex(310025) | Ratio: 6.12 AA ¹ AAA 18pt ⁴ | Ratio: 4.34 AA 18pt ² | Ratio: 3.28 AA 18pt ² | Ratio: 2.52 Failed ⁵ | Ratio: 1.94 Failed ⁵ | Ratio: 1.50 Failed ⁵ | Ratio: 1.20 Failed ⁵ | | Ratio: 1.14 Failed ⁵ | Ratio: 1.16 Failed ⁵ |
| Hex(06000C) | Ratio: 6.99 AA ¹ AAA 18pt ⁴ | Ratio: 4.95 AA ¹ AAA 18pt ⁴ | Ratio: 3.75 AA 18pt ² | Ratio: 2.88 Failed ⁵ | Ratio: 2.22 Failed ⁵ | Ratio: 1.72 Failed ⁵ | Ratio: 1.37 Failed ⁵ | Ratio: 1.14 Failed ⁵ | | Ratio: 1.01 Failed ⁵ |
| Hex(000000) | Ratio: 7.08 Passed ⁶ | Ratio: 5.02 AA ¹ AAA 18pt ⁴ | Ratio: 3.80 AA 18pt ² | Ratio: 2.92 Failed ⁵ | Ratio: 2.25 Failed ⁵ | Ratio: 1.74 Failed ⁵ | Ratio: 1.39 Failed ⁵ | Ratio: 1.16 Failed ⁵ | Ratio: 1.01 Failed ⁵ | |

Details can be found at <https://www.w3.org/TR/WCAG20/>.

¹ AA

AA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

² AA 18pt

AA level for large text above 18pt.

³ AAA

AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

⁴ AAA 18pt

AAA level for large text above 18pt.

⁵ Failed

Failed to comply with the Web Content Accessibility Guidelines (WCAG) 2.0.

⁶ Passed

Passes the AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for all text sizes.

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