

# Converting Colors - WCAG Matrix

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

**Hex(FF377F) Hex(FF0F66) Hex(37E4FF) Hex(807377) Hex(BF0045) Hex(400017)**

|             | Hex(FF377F)                                             | Hex(FF0F66)                         | Hex(37E4FF)                         | Hex(807377)                         | Hex(BF0045)                         | Hex(400017)                                             |
|-------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|
| Hex(FF377F) |                                                         | Ratio: 1.11<br>Failed <sup>5</sup>  | Ratio: 2.24<br>Failed <sup>5</sup>  | Ratio: 1.32<br>Failed <sup>5</sup>  | Ratio: 1.85<br>Failed <sup>5</sup>  | Ratio: 4.96<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> |
| Hex(FF0F66) | Ratio: 1.11<br>Failed <sup>5</sup>                      |                                     | Ratio: 2.49<br>Failed <sup>5</sup>  | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 1.67<br>Failed <sup>5</sup>  | Ratio: 4.48<br>AA 18pt <sup>2</sup>                     |
| Hex(37E4FF) | Ratio: 2.24<br>Failed <sup>5</sup>                      | Ratio: 2.49<br>Failed <sup>5</sup>  |                                     | Ratio: 2.96<br>Failed <sup>5</sup>  | Ratio: 4.15<br>AA 18pt <sup>2</sup> | Ratio: 11.14<br>Passed <sup>6</sup>                     |
| Hex(807377) | Ratio: 1.32<br>Failed <sup>5</sup>                      | Ratio: 1.19<br>Failed <sup>5</sup>  | Ratio: 2.96<br>Failed <sup>5</sup>  |                                     | Ratio: 1.40<br>Failed <sup>5</sup>  | Ratio: 3.77<br>AA 18pt <sup>2</sup>                     |
| Hex(BF0045) | Ratio: 1.85<br>Failed <sup>5</sup>                      | Ratio: 1.67<br>Failed <sup>5</sup>  | Ratio: 4.15<br>AA 18pt <sup>2</sup> | Ratio: 1.40<br>Failed <sup>5</sup>  |                                     | Ratio: 2.68<br>Failed <sup>5</sup>                      |
| Hex(400017) | Ratio: 4.96<br>AA <sup>1</sup><br>AAA 18pt <sup>4</sup> | Ratio: 4.48<br>AA 18pt <sup>2</sup> | Ratio: 11.14<br>Passed <sup>6</sup> | Ratio: 3.77<br>AA 18pt <sup>2</sup> | Ratio: 2.68<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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