

# Converting Colors - WCAG Matrix

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

	Hex(84124B)	Hex(FFFFFF)	Hex(BD4D7C)	Hex(DB6895)	Hex(F883B0)	Hex(FF9ECB)	Hex(FFBAE8)	Hex(FFD7FF)	Hex(FFF4FF)
Hex(84124B)		Ratio: 9.68 Passed <sup>6</sup>	Ratio: 2.08 Failed <sup>5</sup>	Ratio: 2.96 Failed <sup>5</sup>	Ratio: 4.09 AA 18pt <sup>2</sup>	Ratio: 5.07 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.20 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.57 Passed <sup>6</sup>	Ratio: 9.05 Passed <sup>6</sup>
Hex(FFFFFF)	Ratio: 9.68 Passed <sup>6</sup>		Ratio: 4.65 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.27 AA 18pt <sup>2</sup>	Ratio: 2.37 Failed <sup>5</sup>	Ratio: 1.91 Failed <sup>5</sup>	Ratio: 1.56 Failed <sup>5</sup>	Ratio: 1.28 Failed <sup>5</sup>	Ratio: 1.07 Failed <sup>5</sup>
Hex(BD4D7C)	Ratio: 2.08 Failed <sup>5</sup>	Ratio: 4.65 AA <sup>1</sup> AAA 18pt <sup>4</sup>		Ratio: 1.42 Failed <sup>5</sup>	Ratio: 1.96 Failed <sup>5</sup>	Ratio: 2.44 Failed <sup>5</sup>	Ratio: 2.98 Failed <sup>5</sup>	Ratio: 3.63 AA 18pt <sup>2</sup>	Ratio: 4.35 AA 18pt <sup>2</sup>
Hex(DB6895)	Ratio: 2.96 Failed <sup>5</sup>	Ratio: 3.27 AA 18pt <sup>2</sup>	Ratio: 1.42 Failed <sup>5</sup>		Ratio: 1.38 Failed <sup>5</sup>	Ratio: 1.71 Failed <sup>5</sup>	Ratio: 2.09 Failed <sup>5</sup>	Ratio: 2.55 Failed <sup>5</sup>	Ratio: 3.06 AA 18pt <sup>2</sup>
Hex(F883B0)	Ratio: 4.09 AA 18pt <sup>2</sup>	Ratio: 2.37 Failed <sup>5</sup>	Ratio: 1.96 Failed <sup>5</sup>	Ratio: 1.38 Failed <sup>5</sup>		Ratio: 1.24 Failed <sup>5</sup>	Ratio: 1.52 Failed <sup>5</sup>	Ratio: 1.85 Failed <sup>5</sup>	Ratio: 2.22 Failed <sup>5</sup>
Hex(FF9ECB)	Ratio: 5.07 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 1.91 Failed <sup>5</sup>	Ratio: 2.44 Failed <sup>5</sup>	Ratio: 1.71 Failed <sup>5</sup>	Ratio: 1.24 Failed <sup>5</sup>		Ratio: 1.22 Failed <sup>5</sup>	Ratio: 1.49 Failed <sup>5</sup>	Ratio: 1.78 Failed <sup>5</sup>
Hex(FFBAE8)	Ratio: 6.20 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 1.56 Failed <sup>5</sup>	Ratio: 2.98 Failed <sup>5</sup>	Ratio: 2.09 Failed <sup>5</sup>	Ratio: 1.52 Failed <sup>5</sup>	Ratio: 1.22 Failed <sup>5</sup>		Ratio: 1.22 Failed <sup>5</sup>	Ratio: 1.46 Failed <sup>5</sup>
Hex(FFD7FF)	Ratio: 7.57 Passed <sup>6</sup>	Ratio: 1.28 Failed <sup>5</sup>	Ratio: 3.63 AA 18pt <sup>2</sup>	Ratio: 2.55 Failed <sup>5</sup>	Ratio: 1.85 Failed <sup>5</sup>	Ratio: 1.49 Failed <sup>5</sup>	Ratio: 1.22 Failed <sup>5</sup>		Ratio: 1.20 Failed <sup>5</sup>
Hex(FFF4FF)	Ratio: 9.05 Passed <sup>6</sup>	Ratio: 1.07 Failed <sup>5</sup>	Ratio: 4.35 AA 18pt <sup>2</sup>	Ratio: 3.06 AA 18pt <sup>2</sup>	Ratio: 2.22 Failed <sup>5</sup>	Ratio: 1.78 Failed <sup>5</sup>	Ratio: 1.46 Failed <sup>5</sup>	Ratio: 1.20 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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