

# Converting Colors - WCAG Matrix

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

	Hex(6400FF)	Hex(FFFFFF)	Hex(A84FFF)	Hex(C86CFF)	Hex(E888FF)	Hex(FFA5FF)	Hex(FFC1FF)	Hex(FFDFFF)	Hex(FFFCFF)
Hex(6400FF)		Ratio: 7.03 Passed <sup>6</sup>	Ratio: 1.75 Failed <sup>5</sup>	Ratio: 2.36 Failed <sup>5</sup>	Ratio: 3.15 AA 18pt <sup>2</sup>	Ratio: 4.05 AA 18pt <sup>2</sup>	Ratio: 4.80 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.91 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(FFFFFF)	Ratio: 7.03 Passed <sup>6</sup>		Ratio: 4.02 AA 18pt <sup>2</sup>	Ratio: 2.98 Failed <sup>5</sup>	Ratio: 2.23 Failed <sup>5</sup>	Ratio: 1.74 Failed <sup>5</sup>	Ratio: 1.47 Failed <sup>5</sup>	Ratio: 1.22 Failed <sup>5</sup>	Ratio: 1.02 Failed <sup>5</sup>
Hex(A84FFF)	Ratio: 1.75 Failed <sup>5</sup>	Ratio: 4.02 AA 18pt <sup>2</sup>		Ratio: 1.35 Failed <sup>5</sup>	Ratio: 1.80 Failed <sup>5</sup>	Ratio: 2.31 Failed <sup>5</sup>	Ratio: 2.74 Failed <sup>5</sup>	Ratio: 3.30 AA 18pt <sup>2</sup>	Ratio: 3.94 AA 18pt <sup>2</sup>
Hex(C86CFF)	Ratio: 2.36 Failed <sup>5</sup>	Ratio: 2.98 Failed <sup>5</sup>	Ratio: 1.35 Failed <sup>5</sup>		Ratio: 1.33 Failed <sup>5</sup>	Ratio: 1.71 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 2.45 Failed <sup>5</sup>	Ratio: 2.93 Failed <sup>5</sup>
Hex(E888FF)	Ratio: 3.15 AA 18pt <sup>2</sup>	Ratio: 2.23 Failed <sup>5</sup>	Ratio: 1.80 Failed <sup>5</sup>	Ratio: 1.33 Failed <sup>5</sup>		Ratio: 1.29 Failed <sup>5</sup>	Ratio: 1.52 Failed <sup>5</sup>	Ratio: 1.84 Failed <sup>5</sup>	Ratio: 2.19 Failed <sup>5</sup>
Hex(FFA5FF)	Ratio: 4.05 AA 18pt <sup>2</sup>	Ratio: 1.74 Failed <sup>5</sup>	Ratio: 2.31 Failed <sup>5</sup>	Ratio: 1.71 Failed <sup>5</sup>	Ratio: 1.29 Failed <sup>5</sup>		Ratio: 1.19 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>	Ratio: 1.71 Failed <sup>5</sup>
Hex(FFC1FF)	Ratio: 4.80 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 1.47 Failed <sup>5</sup>	Ratio: 2.74 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 1.52 Failed <sup>5</sup>	Ratio: 1.19 Failed <sup>5</sup>		Ratio: 1.20 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>
Hex(FFDFFF)	Ratio: 5.78 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 1.22 Failed <sup>5</sup>	Ratio: 3.30 AA 18pt <sup>2</sup>	Ratio: 2.45 Failed <sup>5</sup>	Ratio: 1.84 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>	Ratio: 1.20 Failed <sup>5</sup>		Ratio: 1.20 Failed <sup>5</sup>
Hex(FFFCFF)	Ratio: 6.91 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 1.02 Failed <sup>5</sup>	Ratio: 3.94 AA 18pt <sup>2</sup>	Ratio: 2.93 Failed <sup>5</sup>	Ratio: 2.19 Failed <sup>5</sup>	Ratio: 1.71 Failed <sup>5</sup>	Ratio: 1.44 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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