

# Converting Colors - WCAG Matrix

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

	Hex(ABABCF)	Hex(9696CF)	Hex(8282CF)	Hex(6E6ECF)	Hex(5959CF)	Hex(4545CF)	Hex(2E2ECF)	Hex(1A1ACF)	Hex(0505CF)	Hex(0000CF)
Hex(ABABCF)		Ratio: 1.25 Failed <sup>5</sup>	Ratio: 1.57 Failed <sup>5</sup>	Ratio: 1.97 Failed <sup>5</sup>	Ratio: 2.52 Failed <sup>5</sup>	Ratio: 3.15 AA 18pt <sup>2</sup>	Ratio: 3.93 AA 18pt <sup>2</sup>	Ratio: 4.52 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.90 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.98 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(9696CF)	Ratio: 1.25 Failed <sup>5</sup>		Ratio: 1.25 Failed <sup>5</sup>	Ratio: 1.58 Failed <sup>5</sup>	Ratio: 2.01 Failed <sup>5</sup>	Ratio: 2.52 Failed <sup>5</sup>	Ratio: 3.14 AA 18pt <sup>2</sup>	Ratio: 3.61 AA 18pt <sup>2</sup>	Ratio: 3.92 AA 18pt <sup>2</sup>	Ratio: 3.98 AA 18pt <sup>2</sup>
Hex(8282CF)	Ratio: 1.57 Failed <sup>5</sup>	Ratio: 1.25 Failed <sup>5</sup>		Ratio: 1.26 Failed <sup>5</sup>	Ratio: 1.61 Failed <sup>5</sup>	Ratio: 2.01 Failed <sup>5</sup>	Ratio: 2.51 Failed <sup>5</sup>	Ratio: 2.89 Failed <sup>5</sup>	Ratio: 3.13 AA 18pt <sup>2</sup>	Ratio: 3.18 AA 18pt <sup>2</sup>
Hex(6E6ECF)	Ratio: 1.97 Failed <sup>5</sup>	Ratio: 1.58 Failed <sup>5</sup>	Ratio: 1.26 Failed <sup>5</sup>		Ratio: 1.28 Failed <sup>5</sup>	Ratio: 1.60 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 2.29 Failed <sup>5</sup>	Ratio: 2.49 Failed <sup>5</sup>	Ratio: 2.52 Failed <sup>5</sup>
Hex(5959CF)	Ratio: 2.52 Failed <sup>5</sup>	Ratio: 2.01 Failed <sup>5</sup>	Ratio: 1.61 Failed <sup>5</sup>	Ratio: 1.28 Failed <sup>5</sup>		Ratio: 1.25 Failed <sup>5</sup>	Ratio: 1.56 Failed <sup>5</sup>	Ratio: 1.79 Failed <sup>5</sup>	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 1.98 Failed <sup>5</sup>
Hex(4545CF)	Ratio: 3.15 AA 18pt <sup>2</sup>	Ratio: 2.52 Failed <sup>5</sup>	Ratio: 2.01 Failed <sup>5</sup>	Ratio: 1.60 Failed <sup>5</sup>	Ratio: 1.25 Failed <sup>5</sup>		Ratio: 1.25 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>	Ratio: 1.56 Failed <sup>5</sup>	Ratio: 1.58 Failed <sup>5</sup>
Hex(2E2ECF)	Ratio: 3.93 AA 18pt <sup>2</sup>	Ratio: 3.14 AA 18pt <sup>2</sup>	Ratio: 2.51 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 1.56 Failed <sup>5</sup>	Ratio: 1.25 Failed <sup>5</sup>		Ratio: 1.15 Failed <sup>5</sup>	Ratio: 1.25 Failed <sup>5</sup>	Ratio: 1.27 Failed <sup>5</sup>
Hex(1A1ACF)	Ratio: 4.52 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.61 AA 18pt <sup>2</sup>	Ratio: 2.89 Failed <sup>5</sup>	Ratio: 2.29 Failed <sup>5</sup>	Ratio: 1.79 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>	Ratio: 1.15 Failed <sup>5</sup>		Ratio: 1.08 Failed <sup>5</sup>	Ratio: 1.10 Failed <sup>5</sup>
Hex(0505CF)	Ratio: 4.90 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.92 AA 18pt <sup>2</sup>	Ratio: 3.13 AA 18pt <sup>2</sup>	Ratio: 2.49 Failed <sup>5</sup>	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 1.56 Failed <sup>5</sup>	Ratio: 1.25 Failed <sup>5</sup>	Ratio: 1.08 Failed <sup>5</sup>		Ratio: 1.01 Failed <sup>5</sup>
Hex(0000CF)	Ratio: 4.98 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.98 AA 18pt <sup>2</sup>	Ratio: 3.18 AA 18pt <sup>2</sup>	Ratio: 2.52 Failed <sup>5</sup>	Ratio: 1.98 Failed <sup>5</sup>	Ratio: 1.58 Failed <sup>5</sup>	Ratio: 1.27 Failed <sup>5</sup>	Ratio: 1.10 Failed <sup>5</sup>	Ratio: 1.01 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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