

# Converting Colors - WCAG Matrix

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

	Hex(FFC3E2)	Hex(E3A8C6)	Hex(C78DAB)	Hex(AB7391)	Hex(905A77)	Hex(76425E)	Hex(5C2A47)	Hex(441330)	Hex(2C001B)	Hex(250011)
Hex(FFC3E2)		Ratio: 1.33 Failed <sup>5</sup>	Ratio: 1.81 Failed <sup>5</sup>	Ratio: 2.53 Failed <sup>5</sup>	Ratio: 3.62 AA 18pt <sup>2</sup>	Ratio: 5.22 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.54 Passed <sup>6</sup>	Ratio: 10.25 Passed <sup>6</sup>	Ratio: 12.61 Passed <sup>6</sup>	Ratio: 13.03 Passed <sup>6</sup>
Hex(E3A8C6)	Ratio: 1.33 Failed <sup>5</sup>		Ratio: 1.36 Failed <sup>5</sup>	Ratio: 1.91 Failed <sup>5</sup>	Ratio: 2.73 Failed <sup>5</sup>	Ratio: 3.94 AA 18pt <sup>2</sup>	Ratio: 5.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.73 Passed <sup>6</sup>	Ratio: 9.51 Passed <sup>6</sup>	Ratio: 9.83 Passed <sup>6</sup>
Hex(C78DAB)	Ratio: 1.81 Failed <sup>5</sup>	Ratio: 1.36 Failed <sup>5</sup>		Ratio: 1.40 Failed <sup>5</sup>	Ratio: 2.00 Failed <sup>5</sup>	Ratio: 2.89 Failed <sup>5</sup>	Ratio: 4.17 AA 18pt <sup>2</sup>	Ratio: 5.66 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.97 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.20 Passed <sup>6</sup>
Hex(AB7391)	Ratio: 2.53 Failed <sup>5</sup>	Ratio: 1.91 Failed <sup>5</sup>	Ratio: 1.40 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 2.98 Failed <sup>5</sup>	Ratio: 4.05 AA 18pt <sup>2</sup>	Ratio: 4.98 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.15 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(905A77)	Ratio: 3.62 AA 18pt <sup>2</sup>	Ratio: 2.73 Failed <sup>5</sup>	Ratio: 2.00 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.09 Failed <sup>5</sup>	Ratio: 2.83 Failed <sup>5</sup>	Ratio: 3.49 AA 18pt <sup>2</sup>	Ratio: 3.60 AA 18pt <sup>2</sup>
Hex(76425E)	Ratio: 5.22 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.94 AA 18pt <sup>2</sup>	Ratio: 2.89 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 1.96 Failed <sup>5</sup>	Ratio: 2.41 Failed <sup>5</sup>	Ratio: 2.49 Failed <sup>5</sup>
Hex(5C2A47)	Ratio: 7.54 Passed <sup>6</sup>	Ratio: 5.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.17 AA 18pt <sup>2</sup>	Ratio: 2.98 Failed <sup>5</sup>	Ratio: 2.09 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.36 Failed <sup>5</sup>	Ratio: 1.67 Failed <sup>5</sup>	Ratio: 1.73 Failed <sup>5</sup>
Hex(441330)	Ratio: 10.25 Passed <sup>6</sup>	Ratio: 7.73 Passed <sup>6</sup>	Ratio: 5.66 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.05 AA 18pt <sup>2</sup>	Ratio: 2.83 Failed <sup>5</sup>	Ratio: 1.96 Failed <sup>5</sup>	Ratio: 1.36 Failed <sup>5</sup>		Ratio: 1.23 Failed <sup>5</sup>	Ratio: 1.27 Failed <sup>5</sup>
Hex(2C001B)	Ratio: 12.61 Passed <sup>6</sup>	Ratio: 9.51 Passed <sup>6</sup>	Ratio: 6.97 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.98 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.49 AA 18pt <sup>2</sup>	Ratio: 2.41 Failed <sup>5</sup>	Ratio: 1.67 Failed <sup>5</sup>	Ratio: 1.23 Failed <sup>5</sup>		Ratio: 1.03 Failed <sup>5</sup>
Hex(250011)	Ratio: 13.03 Passed <sup>6</sup>	Ratio: 9.83 Passed <sup>6</sup>	Ratio: 7.20 Passed <sup>6</sup>	Ratio: 5.15 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.60 AA 18pt <sup>2</sup>	Ratio: 2.49 Failed <sup>5</sup>	Ratio: 1.73 Failed <sup>5</sup>	Ratio: 1.27 Failed <sup>5</sup>	Ratio: 1.03 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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