

# Converting Colors - WCAG Matrix

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

	Hex(FBECFF)	Hex(DFD0E3)	Hex(C3B4C7)	Hex(A799AC)	Hex(8D7F92)	Hex(736678)	Hex(5B4E5F)	Hex(433747)	Hex(2D2231)	Hex(190C1C)
Hex(FBECFF)		Ratio: 1.30 Failed <sup>5</sup>	Ratio: 1.74 Failed <sup>5</sup>	Ratio: 2.38 Failed <sup>5</sup>	Ratio: 3.32 AA 18pt <sup>2</sup>	Ratio: 4.75 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.87 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 9.88 Passed <sup>6</sup>	Ratio: 13.39 Passed <sup>6</sup>	Ratio: 16.70 Passed <sup>6</sup>
Hex(DFD0E3)	Ratio: 1.30 Failed <sup>5</sup>		Ratio: 1.34 Failed <sup>5</sup>	Ratio: 1.83 Failed <sup>5</sup>	Ratio: 2.56 Failed <sup>5</sup>	Ratio: 3.66 AA 18pt <sup>2</sup>	Ratio: 5.29 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.61 Passed <sup>6</sup>	Ratio: 10.30 Passed <sup>6</sup>	Ratio: 12.85 Passed <sup>6</sup>
Hex(C3B4C7)	Ratio: 1.74 Failed <sup>5</sup>	Ratio: 1.34 Failed <sup>5</sup>		Ratio: 1.37 Failed <sup>5</sup>	Ratio: 1.91 Failed <sup>5</sup>	Ratio: 2.74 Failed <sup>5</sup>	Ratio: 3.95 AA 18pt <sup>2</sup>	Ratio: 5.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.71 Passed <sup>6</sup>	Ratio: 9.61 Passed <sup>6</sup>
Hex(A799AC)	Ratio: 2.38 Failed <sup>5</sup>	Ratio: 1.83 Failed <sup>5</sup>	Ratio: 1.37 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: 4.15 AA 18pt <sup>2</sup>	Ratio: 5.63 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.02 Passed <sup>6</sup>
Hex(8D7F92)	Ratio: 3.32 AA 18pt <sup>2</sup>	Ratio: 2.56 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: 2.07 Failed <sup>5</sup>	Ratio: 2.98 Failed <sup>5</sup>	Ratio: 4.03 AA 18pt <sup>2</sup>	Ratio: 5.03 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(736678)	Ratio: 4.75 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.66 AA 18pt <sup>2</sup>	Ratio: 2.74 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: 2.08 Failed <sup>5</sup>	Ratio: 2.82 Failed <sup>5</sup>	Ratio: 3.51 AA 18pt <sup>2</sup>
Hex(5B4E5F)	Ratio: 6.87 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.29 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.95 AA 18pt <sup>2</sup>	Ratio: 2.89 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 2.43 Failed <sup>5</sup>
Hex(433747)	Ratio: 9.88 Passed <sup>6</sup>	Ratio: 7.61 Passed <sup>6</sup>	Ratio: 5.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.15 AA 18pt <sup>2</sup>	Ratio: 2.98 Failed <sup>5</sup>	Ratio: 2.08 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.35 Failed <sup>5</sup>	Ratio: 1.69 Failed <sup>5</sup>
Hex(2D2231)	Ratio: 13.39 Passed <sup>6</sup>	Ratio: 10.30 Passed <sup>6</sup>	Ratio: 7.71 Passed <sup>6</sup>	Ratio: 5.63 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.03 AA 18pt <sup>2</sup>	Ratio: 2.82 Failed <sup>5</sup>	Ratio: 1.95 Failed <sup>5</sup>	Ratio: 1.35 Failed <sup>5</sup>		Ratio: 1.25 Failed <sup>5</sup>
Hex(190C1C)	Ratio: 16.70 Passed <sup>6</sup>	Ratio: 12.85 Passed <sup>6</sup>	Ratio: 9.61 Passed <sup>6</sup>	Ratio: 7.02 Passed <sup>6</sup>	Ratio: 5.03 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.51 AA 18pt <sup>2</sup>	Ratio: 2.43 Failed <sup>5</sup>	Ratio: 1.69 Failed <sup>5</sup>	Ratio: 1.25 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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