

# Converting Colors - WCAG Matrix

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

	Hex(171517)	Hex(F8F5F8)	Hex(413F41)	Hex(585659)	Hex(716E71)	Hex(8A888B)	Hex(A5A2A5)	Hex(C0BDC0)	Hex(DBD9DC)
Hex(171517)		Ratio: 16.79 Passed <sup>6</sup>	Ratio: 1.74 Failed <sup>5</sup>	Ratio: 2.50 Failed <sup>5</sup>	Ratio: 3.61 AA 18pt <sup>2</sup>	Ratio: 5.17 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.19 Passed <sup>6</sup>	Ratio: 9.76 Passed <sup>6</sup>	Ratio: 12.95 Passed <sup>6</sup>
Hex(F8F5F8)	Ratio: 16.79 Passed <sup>6</sup>		Ratio: 9.65 Passed <sup>6</sup>	Ratio: 6.71 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.65 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.25 AA 18pt <sup>2</sup>	Ratio: 2.34 Failed <sup>5</sup>	Ratio: 1.72 Failed <sup>5</sup>	Ratio: 1.30 Failed <sup>5</sup>
Hex(413F41)	Ratio: 1.74 Failed <sup>5</sup>	Ratio: 9.65 Passed <sup>6</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 2.97 Failed <sup>5</sup>	Ratio: 4.13 AA 18pt <sup>2</sup>	Ratio: 5.61 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.44 Passed <sup>6</sup>
Hex(585659)	Ratio: 2.50 Failed <sup>5</sup>	Ratio: 6.71 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 2.88 Failed <sup>5</sup>	Ratio: 3.90 AA 18pt <sup>2</sup>	Ratio: 5.18 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(716E71)	Ratio: 3.61 AA 18pt <sup>2</sup>	Ratio: 4.65 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 2.70 Failed <sup>5</sup>	Ratio: 3.59 AA 18pt <sup>2</sup>
Hex(8A888B)	Ratio: 5.17 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.25 AA 18pt <sup>2</sup>	Ratio: 2.97 Failed <sup>5</sup>	Ratio: 2.07 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.39 Failed <sup>5</sup>	Ratio: 1.89 Failed <sup>5</sup>	Ratio: 2.51 Failed <sup>5</sup>
Hex(A5A2A5)	Ratio: 7.19 Passed <sup>6</sup>	Ratio: 2.34 Failed <sup>5</sup>	Ratio: 4.13 AA 18pt <sup>2</sup>	Ratio: 2.88 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 1.39 Failed <sup>5</sup>		Ratio: 1.36 Failed <sup>5</sup>	Ratio: 1.80 Failed <sup>5</sup>
Hex(C0BDC0)	Ratio: 9.76 Passed <sup>6</sup>	Ratio: 1.72 Failed <sup>5</sup>	Ratio: 5.61 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.90 AA 18pt <sup>2</sup>	Ratio: 2.70 Failed <sup>5</sup>	Ratio: 1.89 Failed <sup>5</sup>	Ratio: 1.36 Failed <sup>5</sup>		Ratio: 1.33 Failed <sup>5</sup>
Hex(DBD9DC)	Ratio: 12.95 Passed <sup>6</sup>	Ratio: 1.30 Failed <sup>5</sup>	Ratio: 7.44 Passed <sup>6</sup>	Ratio: 5.18 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.59 AA 18pt <sup>2</sup>	Ratio: 2.51 Failed <sup>5</sup>	Ratio: 1.80 Failed <sup>5</sup>	Ratio: 1.33 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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