

# Converting Colors - WCAG Matrix

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

	Hex(F5E0F1)	Hex(D9C4D5)	Hex(BDA8B9)	Hex(A28E9E)	Hex(887484)	Hex(6E5C6B)	Hex(564453)	Hex(3E2E3B)	Hex(281926)	Hex(150011)
Hex(F5E0F1)		Ratio: 1.31 Failed <sup>5</sup>	Ratio: 1.78 Failed <sup>5</sup>	Ratio: 2.44 Failed <sup>5</sup>	Ratio: 3.45 AA 18pt <sup>2</sup>	Ratio: 4.94 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.16 Passed <sup>6</sup>	Ratio: 10.14 Passed <sup>6</sup>	Ratio: 13.37 Passed <sup>6</sup>	Ratio: 16.17 Passed <sup>6</sup>
Hex(D9C4D5)	Ratio: 1.31 Failed <sup>5</sup>		Ratio: 1.35 Failed <sup>5</sup>	Ratio: 1.86 Failed <sup>5</sup>	Ratio: 2.63 Failed <sup>5</sup>	Ratio: 3.76 AA 18pt <sup>2</sup>	Ratio: 5.46 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.72 Passed <sup>6</sup>	Ratio: 10.19 Passed <sup>6</sup>	Ratio: 12.31 Passed <sup>6</sup>
Hex(BDA8B9)	Ratio: 1.78 Failed <sup>5</sup>	Ratio: 1.35 Failed <sup>5</sup>		Ratio: 1.37 Failed <sup>5</sup>	Ratio: 1.94 Failed <sup>5</sup>	Ratio: 2.78 Failed <sup>5</sup>	Ratio: 4.03 AA 18pt <sup>2</sup>	Ratio: 5.71 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.53 Passed <sup>6</sup>	Ratio: 9.10 Passed <sup>6</sup>
Hex(A28E9E)	Ratio: 2.44 Failed <sup>5</sup>	Ratio: 1.86 Failed <sup>5</sup>	Ratio: 1.37 Failed <sup>5</sup>		Ratio: 1.41 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 2.94 Failed <sup>5</sup>	Ratio: 4.16 AA 18pt <sup>2</sup>	Ratio: 5.49 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.63 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(887484)	Ratio: 3.45 AA 18pt <sup>2</sup>	Ratio: 2.63 Failed <sup>5</sup>	Ratio: 1.94 Failed <sup>5</sup>	Ratio: 1.41 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 2.08 Failed <sup>5</sup>	Ratio: 2.94 Failed <sup>5</sup>	Ratio: 3.88 AA 18pt <sup>2</sup>	Ratio: 4.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(6E5C6B)	Ratio: 4.94 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.76 AA 18pt <sup>2</sup>	Ratio: 2.78 Failed <sup>5</sup>	Ratio: 2.03 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.45 Failed <sup>5</sup>	Ratio: 2.05 Failed <sup>5</sup>	Ratio: 2.71 Failed <sup>5</sup>	Ratio: 3.28 AA 18pt <sup>2</sup>
Hex(564453)	Ratio: 7.16 Passed <sup>6</sup>	Ratio: 5.46 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.03 AA 18pt <sup>2</sup>	Ratio: 2.94 Failed <sup>5</sup>	Ratio: 2.08 Failed <sup>5</sup>	Ratio: 1.45 Failed <sup>5</sup>		Ratio: 1.42 Failed <sup>5</sup>	Ratio: 1.87 Failed <sup>5</sup>	Ratio: 2.26 Failed <sup>5</sup>
Hex(3E2E3B)	Ratio: 10.14 Passed <sup>6</sup>	Ratio: 7.72 Passed <sup>6</sup>	Ratio: 5.71 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.16 AA 18pt <sup>2</sup>	Ratio: 2.94 Failed <sup>5</sup>	Ratio: 2.05 Failed <sup>5</sup>	Ratio: 1.42 Failed <sup>5</sup>		Ratio: 1.32 Failed <sup>5</sup>	Ratio: 1.59 Failed <sup>5</sup>
Hex(281926)	Ratio: 13.37 Passed <sup>6</sup>	Ratio: 10.19 Passed <sup>6</sup>	Ratio: 7.53 Passed <sup>6</sup>	Ratio: 5.49 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.88 AA 18pt <sup>2</sup>	Ratio: 2.71 Failed <sup>5</sup>	Ratio: 1.87 Failed <sup>5</sup>	Ratio: 1.32 Failed <sup>5</sup>		Ratio: 1.21 Failed <sup>5</sup>
Hex(150011)	Ratio: 16.17 Passed <sup>6</sup>	Ratio: 12.31 Passed <sup>6</sup>	Ratio: 9.10 Passed <sup>6</sup>	Ratio: 6.63 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.28 AA 18pt <sup>2</sup>	Ratio: 2.26 Failed <sup>5</sup>	Ratio: 1.59 Failed <sup>5</sup>	Ratio: 1.21 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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