

# Converting Colors - WCAG Matrix

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

	Hex(DFC7FF)	Hex(C3ACE2)	Hex(A891C6)	Hex(8D77AB)	Hex(735E90)	Hex(5A4776)	Hex(42305D)	Hex(2A1B46)	Hex(16022F)	Hex(00011A)
Hex(DFC7FF)		Ratio: 1.33 Failed <sup>5</sup>	Ratio: 1.83 Failed <sup>5</sup>	Ratio: 2.57 Failed <sup>5</sup>	Ratio: 3.68 AA 18pt <sup>2</sup>	Ratio: 5.29 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.59 Passed <sup>6</sup>	Ratio: 10.23 Passed <sup>6</sup>	Ratio: 12.69 Passed <sup>6</sup>	Ratio: 13.49 Passed <sup>6</sup>
Hex(C3ACE2)	Ratio: 1.33 Failed <sup>5</sup>		Ratio: 1.37 Failed <sup>5</sup>	Ratio: 1.93 Failed <sup>5</sup>	Ratio: 2.76 Failed <sup>5</sup>	Ratio: 3.97 AA 18pt <sup>2</sup>	Ratio: 5.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.68 Passed <sup>6</sup>	Ratio: 9.52 Passed <sup>6</sup>	Ratio: 10.13 Passed <sup>6</sup>
Hex(A891C6)	Ratio: 1.83 Failed <sup>5</sup>	Ratio: 1.37 Failed <sup>5</sup>		Ratio: 1.41 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>	Ratio: 2.90 Failed <sup>5</sup>	Ratio: 4.16 AA 18pt <sup>2</sup>	Ratio: 5.60 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.95 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.39 Passed <sup>6</sup>
Hex(8D77AB)	Ratio: 2.57 Failed <sup>5</sup>	Ratio: 1.93 Failed <sup>5</sup>	Ratio: 1.41 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 2.96 Failed <sup>5</sup>	Ratio: 3.99 AA 18pt <sup>2</sup>	Ratio: 4.95 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 5.26 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(735E90)	Ratio: 3.68 AA 18pt <sup>2</sup>	Ratio: 2.76 Failed <sup>5</sup>	Ratio: 2.02 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 2.78 Failed <sup>5</sup>	Ratio: 3.44 AA 18pt <sup>2</sup>	Ratio: 3.66 AA 18pt <sup>2</sup>
Hex(5A4776)	Ratio: 5.29 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.97 AA 18pt <sup>2</sup>	Ratio: 2.90 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.43 Failed <sup>5</sup>	Ratio: 1.93 Failed <sup>5</sup>	Ratio: 2.40 Failed <sup>5</sup>	Ratio: 2.55 Failed <sup>5</sup>
Hex(42305D)	Ratio: 7.59 Passed <sup>6</sup>	Ratio: 5.69 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.16 AA 18pt <sup>2</sup>	Ratio: 2.96 Failed <sup>5</sup>	Ratio: 2.06 Failed <sup>5</sup>	Ratio: 1.43 Failed <sup>5</sup>		Ratio: 1.35 Failed <sup>5</sup>	Ratio: 1.67 Failed <sup>5</sup>	Ratio: 1.78 Failed <sup>5</sup>
Hex(2A1B46)	Ratio: 10.23 Passed <sup>6</sup>	Ratio: 7.68 Passed <sup>6</sup>	Ratio: 5.60 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.99 AA 18pt <sup>2</sup>	Ratio: 2.78 Failed <sup>5</sup>	Ratio: 1.93 Failed <sup>5</sup>	Ratio: 1.35 Failed <sup>5</sup>		Ratio: 1.24 Failed <sup>5</sup>	Ratio: 1.32 Failed <sup>5</sup>
Hex(16022F)	Ratio: 12.69 Passed <sup>6</sup>	Ratio: 9.52 Passed <sup>6</sup>	Ratio: 6.95 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.95 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.44 AA 18pt <sup>2</sup>	Ratio: 2.40 Failed <sup>5</sup>	Ratio: 1.67 Failed <sup>5</sup>	Ratio: 1.24 Failed <sup>5</sup>		Ratio: 1.06 Failed <sup>5</sup>
Hex(00011A)	Ratio: 13.49 Passed <sup>6</sup>	Ratio: 10.13 Passed <sup>6</sup>	Ratio: 7.39 Passed <sup>6</sup>	Ratio: 5.26 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.66 AA 18pt <sup>2</sup>	Ratio: 2.55 Failed <sup>5</sup>	Ratio: 1.78 Failed <sup>5</sup>	Ratio: 1.32 Failed <sup>5</sup>	Ratio: 1.06 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.