

# Converting Colors - WCAG Matrix

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

	Hex(102A40)	Hex(FCFFFF)	Hex(415870)	Hex(59708A)	Hex(7289A4)	Hex(8DA4BF)	Hex(A7BFDB)	Hex(C3DAF8)	Hex(DF77FF)
Hex(102A40)		Ratio: 14.63 Passed <sup>6</sup>	Ratio: 2.00 Failed <sup>5</sup>	Ratio: 2.88 Failed <sup>5</sup>	Ratio: 4.08 AA 18pt <sup>2</sup>	Ratio: 5.74 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 7.79 Passed <sup>6</sup>	Ratio: 10.30 Passed <sup>6</sup>	Ratio: 13.23 Passed <sup>6</sup>
Hex(FCFFFF)	Ratio: 14.63 Passed <sup>6</sup>		Ratio: 7.32 Passed <sup>6</sup>	Ratio: 5.08 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.58 AA 18pt <sup>2</sup>	Ratio: 2.55 Failed <sup>5</sup>	Ratio: 1.88 Failed <sup>5</sup>	Ratio: 1.42 Failed <sup>5</sup>	Ratio: 1.11 Failed <sup>5</sup>
Hex(415870)	Ratio: 2.00 Failed <sup>5</sup>	Ratio: 7.32 Passed <sup>6</sup>		Ratio: 1.44 Failed <sup>5</sup>	Ratio: 2.04 Failed <sup>5</sup>	Ratio: 2.87 Failed <sup>5</sup>	Ratio: 3.89 AA 18pt <sup>2</sup>	Ratio: 5.15 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 6.62 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(59708A)	Ratio: 2.88 Failed <sup>5</sup>	Ratio: 5.08 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 1.44 Failed <sup>5</sup>		Ratio: 1.42 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 2.71 Failed <sup>5</sup>	Ratio: 3.58 AA 18pt <sup>2</sup>	Ratio: 4.60 AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(7289A4)	Ratio: 4.08 AA 18pt <sup>2</sup>	Ratio: 3.58 AA 18pt <sup>2</sup>	Ratio: 2.04 Failed <sup>5</sup>	Ratio: 1.42 Failed <sup>5</sup>		Ratio: 1.41 Failed <sup>5</sup>	Ratio: 1.91 Failed <sup>5</sup>	Ratio: 2.52 Failed <sup>5</sup>	Ratio: 3.24 AA 18pt <sup>2</sup>
Hex(8DA4BF)	Ratio: 5.74 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 2.55 Failed <sup>5</sup>	Ratio: 2.87 Failed <sup>5</sup>	Ratio: 1.99 Failed <sup>5</sup>	Ratio: 1.41 Failed <sup>5</sup>		Ratio: 1.36 Failed <sup>5</sup>	Ratio: 1.79 Failed <sup>5</sup>	Ratio: 2.30 Failed <sup>5</sup>
Hex(A7BFDB)	Ratio: 7.79 Passed <sup>6</sup>	Ratio: 1.88 Failed <sup>5</sup>	Ratio: 3.89 AA 18pt <sup>2</sup>	Ratio: 2.71 Failed <sup>5</sup>	Ratio: 1.91 Failed <sup>5</sup>	Ratio: 1.36 Failed <sup>5</sup>		Ratio: 1.32 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>
Hex(C3DAF8)	Ratio: 10.30 Passed <sup>6</sup>	Ratio: 1.42 Failed <sup>5</sup>	Ratio: 5.15 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.58 AA 18pt <sup>2</sup>	Ratio: 2.52 Failed <sup>5</sup>	Ratio: 1.79 Failed <sup>5</sup>	Ratio: 1.32 Failed <sup>5</sup>		Ratio: 1.28 Failed <sup>5</sup>
Hex(DF77FF)	Ratio: 13.23 Passed <sup>6</sup>	Ratio: 1.11 Failed <sup>5</sup>	Ratio: 6.62 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 4.60 AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: 3.24 AA 18pt <sup>2</sup>	Ratio: 2.30 Failed <sup>5</sup>	Ratio: 1.70 Failed <sup>5</sup>	Ratio: 1.28 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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