

# Converting Colors - WCAG Matrix

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

	Hex(D7E6CB)	Hex(BBCAB0)	Hex(A0AF95)	Hex(86947B)	Hex(6D7A62)	Hex(54614A)	Hex(3D4934)	Hex(27331E)	Hex(131E06)	Hex(000000)
Hex(D7E6CB)		Ratio: <a href="#">1.32</a> Failed <sup>5</sup>	Ratio: <a href="#">1.77</a> Failed <sup>5</sup>	Ratio: <a href="#">2.46</a> Failed <sup>5</sup>	Ratio: <a href="#">3.49</a> AA 18pt <sup>2</sup>	Ratio: <a href="#">5.04</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: <a href="#">7.30</a> Passed <sup>6</sup>	Ratio: <a href="#">10.18</a> Passed <sup>6</sup>	Ratio: <a href="#">13.22</a> Passed <sup>6</sup>	Ratio: <a href="#">16.07</a> Passed <sup>6</sup>
Hex(BBCAB0)	Ratio: <a href="#">1.32</a> Failed <sup>5</sup>		Ratio: <a href="#">1.35</a> Failed <sup>5</sup>	Ratio: <a href="#">1.86</a> Failed <sup>5</sup>	Ratio: <a href="#">2.64</a> Failed <sup>5</sup>	Ratio: <a href="#">3.83</a> AA 18pt <sup>2</sup>	Ratio: <a href="#">5.54</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: <a href="#">7.72</a> Passed <sup>6</sup>	Ratio: <a href="#">10.02</a> Passed <sup>6</sup>	Ratio: <a href="#">12.19</a> Passed <sup>6</sup>
Hex(A0AF95)	Ratio: <a href="#">1.77</a> Failed <sup>5</sup>	Ratio: <a href="#">1.35</a> Failed <sup>5</sup>		Ratio: <a href="#">1.39</a> Failed <sup>5</sup>	Ratio: <a href="#">1.97</a> Failed <sup>5</sup>	Ratio: <a href="#">2.84</a> Failed <sup>5</sup>	Ratio: <a href="#">4.12</a> AA 18pt <sup>2</sup>	Ratio: <a href="#">5.74</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: <a href="#">7.45</a> Passed <sup>6</sup>	Ratio: <a href="#">9.06</a> Passed <sup>6</sup>
Hex(86947B)	Ratio: <a href="#">2.46</a> Failed <sup>5</sup>	Ratio: <a href="#">1.86</a> Failed <sup>5</sup>	Ratio: <a href="#">1.39</a> Failed <sup>5</sup>		Ratio: <a href="#">1.42</a> Failed <sup>5</sup>	Ratio: <a href="#">2.05</a> Failed <sup>5</sup>	Ratio: <a href="#">2.97</a> Failed <sup>5</sup>	Ratio: <a href="#">4.14</a> AA 18pt <sup>2</sup>	Ratio: <a href="#">5.37</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: <a href="#">6.54</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(6D7A62)	Ratio: <a href="#">3.49</a> AA 18pt <sup>2</sup>	Ratio: <a href="#">2.64</a> Failed <sup>5</sup>	Ratio: <a href="#">1.97</a> Failed <sup>5</sup>	Ratio: <a href="#">1.42</a> Failed <sup>5</sup>		Ratio: <a href="#">1.45</a> Failed <sup>5</sup>	Ratio: <a href="#">2.09</a> Failed <sup>5</sup>	Ratio: <a href="#">2.92</a> Failed <sup>5</sup>	Ratio: <a href="#">3.79</a> AA 18pt <sup>2</sup>	Ratio: <a href="#">4.61</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>
Hex(54614A)	Ratio: <a href="#">5.04</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: <a href="#">3.83</a> AA 18pt <sup>2</sup>	Ratio: <a href="#">2.84</a> Failed <sup>5</sup>	Ratio: <a href="#">2.05</a> Failed <sup>5</sup>	Ratio: <a href="#">1.45</a> Failed <sup>5</sup>		Ratio: <a href="#">1.45</a> Failed <sup>5</sup>	Ratio: <a href="#">2.02</a> Failed <sup>5</sup>	Ratio: <a href="#">2.62</a> Failed <sup>5</sup>	Ratio: <a href="#">3.19</a> AA 18pt <sup>2</sup>
Hex(3D4934)	Ratio: <a href="#">7.30</a> Passed <sup>6</sup>	Ratio: <a href="#">5.54</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: <a href="#">4.12</a> AA 18pt <sup>2</sup>	Ratio: <a href="#">2.97</a> Failed <sup>5</sup>	Ratio: <a href="#">2.09</a> Failed <sup>5</sup>	Ratio: <a href="#">1.45</a> Failed <sup>5</sup>		Ratio: <a href="#">1.39</a> Failed <sup>5</sup>	Ratio: <a href="#">1.81</a> Failed <sup>5</sup>	Ratio: <a href="#">2.20</a> Failed <sup>5</sup>
Hex(27331E)	Ratio: <a href="#">10.18</a> Passed <sup>6</sup>	Ratio: <a href="#">7.72</a> Passed <sup>6</sup>	Ratio: <a href="#">5.74</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: <a href="#">4.14</a> AA 18pt <sup>2</sup>	Ratio: <a href="#">2.92</a> Failed <sup>5</sup>	Ratio: <a href="#">2.02</a> Failed <sup>5</sup>	Ratio: <a href="#">1.39</a> Failed <sup>5</sup>		Ratio: <a href="#">1.30</a> Failed <sup>5</sup>	Ratio: <a href="#">1.58</a> Failed <sup>5</sup>
Hex(131E06)	Ratio: <a href="#">13.22</a> Passed <sup>6</sup>	Ratio: <a href="#">10.02</a> Passed <sup>6</sup>	Ratio: <a href="#">7.45</a> Passed <sup>6</sup>	Ratio: <a href="#">5.37</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: <a href="#">3.79</a> AA 18pt <sup>2</sup>	Ratio: <a href="#">2.62</a> Failed <sup>5</sup>	Ratio: <a href="#">1.81</a> Failed <sup>5</sup>	Ratio: <a href="#">1.30</a> Failed <sup>5</sup>		Ratio: <a href="#">1.22</a> Failed <sup>5</sup>
Hex(000000)	Ratio: <a href="#">16.07</a> Passed <sup>6</sup>	Ratio: <a href="#">12.19</a> Passed <sup>6</sup>	Ratio: <a href="#">9.06</a> Passed <sup>6</sup>	Ratio: <a href="#">6.54</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: <a href="#">4.61</a> AA <sup>1</sup> AAA 18pt <sup>4</sup>	Ratio: <a href="#">3.19</a> AA 18pt <sup>2</sup>	Ratio: <a href="#">2.20</a> Failed <sup>5</sup>	Ratio: <a href="#">1.58</a> Failed <sup>5</sup>	Ratio: <a href="#">1.22</a> 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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