

# Converting Colors - WCAG Matrix

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

	Hex(9B2828)	Hex(9B3838)	Hex(9B4747)	Hex(9B5757)	Hex(9B6666)	Hex(9B7676)	Hex(9B8585)	Hex(9B9595)	Hex(9BA4A4)	Hex(9BB4B4)
Hex(9B2828)		<a href="#">Ratio: 1.11</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.24</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.43</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.64</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.92</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.23</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.61</a> Failed <sup>5</sup>	<a href="#">Ratio: 3.02</a> AA 18pt <sup>2</sup>	<a href="#">Ratio: 3.51</a> AA 18pt <sup>2</sup>
Hex(9B3838)	<a href="#">Ratio: 1.11</a> Failed <sup>5</sup>		<a href="#">Ratio: 1.12</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.29</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.49</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.74</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.02</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.36</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.73</a> Failed <sup>5</sup>	<a href="#">Ratio: 3.18</a> AA 18pt <sup>2</sup>
Hex(9B4747)	<a href="#">Ratio: 1.24</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.12</a> Failed <sup>5</sup>		<a href="#">Ratio: 1.15</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.32</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.55</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.80</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.10</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.43</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.83</a> Failed <sup>5</sup>
Hex(9B5757)	<a href="#">Ratio: 1.43</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.29</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.15</a> Failed <sup>5</sup>		<a href="#">Ratio: 1.15</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.35</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.56</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.83</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.12</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.46</a> Failed <sup>5</sup>
Hex(9B6666)	<a href="#">Ratio: 1.64</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.49</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.32</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.15</a> Failed <sup>5</sup>		<a href="#">Ratio: 1.17</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.36</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.59</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.84</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.14</a> Failed <sup>5</sup>
Hex(9B7676)	<a href="#">Ratio: 1.92</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.74</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.55</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.35</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.17</a> Failed <sup>5</sup>		<a href="#">Ratio: 1.16</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.36</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.57</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.83</a> Failed <sup>5</sup>
Hex(9B8585)	<a href="#">Ratio: 2.23</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.02</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.80</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.56</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.36</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.16</a> Failed <sup>5</sup>		<a href="#">Ratio: 1.17</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.35</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.57</a> Failed <sup>5</sup>
Hex(9B9595)	<a href="#">Ratio: 2.61</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.36</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.10</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.83</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.59</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.36</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.17</a> Failed <sup>5</sup>		<a href="#">Ratio: 1.16</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.34</a> Failed <sup>5</sup>
Hex(9BA4A4)	<a href="#">Ratio: 3.02</a> AA 18pt <sup>2</sup>	<a href="#">Ratio: 2.73</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.43</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.12</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.84</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.57</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.35</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.16</a> Failed <sup>5</sup>		<a href="#">Ratio: 1.16</a> Failed <sup>5</sup>
Hex(9BB4B4)	<a href="#">Ratio: 3.51</a> AA 18pt <sup>2</sup>	<a href="#">Ratio: 3.18</a> AA 18pt <sup>2</sup>	<a href="#">Ratio: 2.83</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.46</a> Failed <sup>5</sup>	<a href="#">Ratio: 2.14</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.83</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.57</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.34</a> Failed <sup>5</sup>	<a href="#">Ratio: 1.16</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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