

Converting Colors

CIELCh(50, 16.432, 212.058)

Have a look what the booklet for
CIELCh(50, 16.432, 212.058)
contains.

CIELCh(50, 16.318, 212.520)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(50, 16.318, 212.520)

Conversions

Conversions Part 1

Format	Color
Hex	507E85
RGB	80, 126, 133
RGB Percent	31%, 49%, 52%
CMY	0.6851, 0.5047, 0.4772
CMYK	0.40, 0.05, 0.00, 0.48
HSL	188°, 25%, 42%
HSV	188°, 40%, 52%
XYZ	15.0871, 18.4187, 25.0597
YIQ	113.0440, -29.6630, -7.5750

Conversions

Conversions Part 2

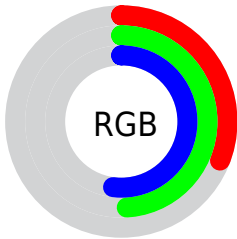
Format	Color
R_{YB}	80, 105, 133
Decimal	5275269
CIE _{Lab}	50.00, -13.76, -8.77
CIE _{LCh}	50, 16.318, 212.520
Yxy	18.4187, 0.2576, 0.3145
Android (android.graphics.Color)	4283465349 (0xFF507E85)
YUV	113.0440, 9.8383, -28.9796
Hunter-Lab	42.9170, -12.3545, -4.5782

Details

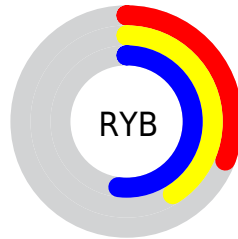
The CIELCh color **50, 16.318, 212.520** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **42, 21.662, 33.226**, and the grayscale version is **48, 0.006, 296.813**.

A 20% lighter version of the original color is **70, 16.310, 211.886**, and **30, 16.371, 213.320** is the 20% darker color. If you saturate the color by 10%, you get **49, 19.463, 213.048**, and if you desaturate by 10%, it is **51, 12.719, 212.180**.

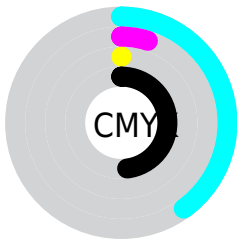
Distribution



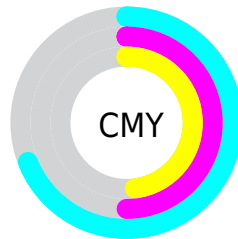
- Red (31%)
- Green (49%)
- Blue (52%)



- Red (31%)
- Yellow (41%)
- Blue (52%)



- Cyan (40%)
- Magenta (5%)
- Yellow (0%)
- Black (48%)





- Cyan (69%)
- Magenta (50%)
- Yellow (48%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 16.318, 212.520 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 50, 16.318, 212.520 by changing the saturation by 10% instead.


 50, 16.318,
212.520


 50, 16.318,
212.520


 100, 16.318,
212.520


 40, 16.318,
212.520


 70, 16.318,
212.520


 30, 16.318,
212.520


 80, 16.318,
212.520


 20, 16.318,
212.520

 90, 16.318,
212.520

 10, 16.318,
212.520

 0, 16.318, 212.520

 50, 16.318,
212.520

 50, 16.318,
212.520

■ 49, 19.463,
213.048

■ 51, 12.719,
212.180

■ 48, 22.092,
213.813

■ 53, 8.736, 212.004

■ 47, 24.158,
214.859

■ 54, 4.438, 211.983

■ 56, 0.110, 28.194

■ 46, 25.639,
216.237

■ 57, 4.851, 31.943

■ 45, 26.550,
217.996

■ 59, 9.736, 32.151

■ 61, 14.723, 32.374

■ 44, 27.088,
220.038

■ 63, 19.779, 32.623

■ 44, 27.101,
220.086

■ 64, 24.876, 32.891

Harmonies

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



50, 16.318, 212.520



42, 21.662, 33.226

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



50, 16.318, 212.520



50, 16.318, 262.520



50, 16.318, 32.520



50, 16.318, 82.520

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



50, 16.318, 212.517



69, 6.719, 211.971



51, 34.395, 144.786



35, 4.425, 211.970



86, 0.010, 296.813



37, 0.005, 296.813

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



50, 16.318, 212.517



63, 23.356, 213.005



42, 20.608, 273.427



27, 2.557, 211.989



43, 26.625, 220.021



0, 0.627, 211.937

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



42, 34.025, 330.578



51, 50.238, 331.130



49, 21.322, 81.845



26, 4.814, 328.757



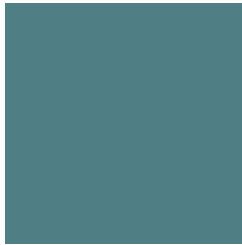
29, 63.421, 334.098



0, 1.146, 328.264

Previews

White Background



This preview shows how the CIE LCh color 50, 16.318, 212.520 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIELCh color 50, 16.318, 212.520 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

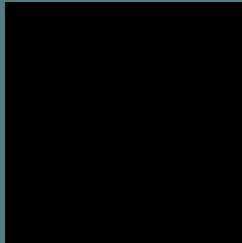
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

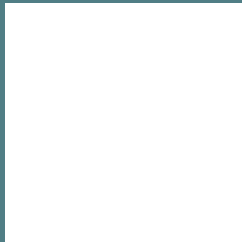
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 50, 16.318, 212.520

Background



This preview shows how black text looks on a background with the CIELCh color 50, 16.318, 212.520.



This preview shows how white text looks on a background with the CIELCh color 50, 16.318, 212.520.

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

50, 16.318, 212.520

Protanopia

50, 5.858, 290.945

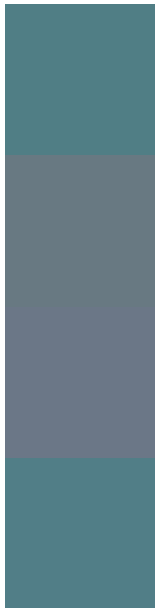
Deuteranopia

50, 12.654, 303.912



Tritanopia
50, 16.319, 219.138

Trichromacy



Original Color
50, 16.318, 212.520

Protanomaly
50, 8.153, 239.345

Deuteranomaly
50, 10.259, 265.683

Tritanomaly
50, 16.203, 217.053

Monochromacy



Original Color
50, 16.318, 212.520

Achromatopsia
48, 0.006, 296.813

Achromatomaly
48, 6.640, 209.006

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 16.318, 212.520 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(80, 126, 133)` looks like.

```
.text, #text, p{  
    color:rgb(80, 126, 133)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(80, 126, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 126, 133) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 16.318, 212.520 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(80, 126, 133) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(80, 126, 133) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(80, 126, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 126, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 126, 133);  
box-shadow:4px 4px 4px 4px rgb(80, 126,  
133) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 16.318, 212.520 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 126, 133) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(80, 126,  
133) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor