

# Converting Colors

CIELCh(68, 18.699, 214.898)

Have a look what the booklet for  
CIELCh(68, 18.699, 214.898)  
contains.

<b>CIELCh(68, 18.781, 213.431)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	20
<b><i>Color Blindness Simulation</i></b> .....	23
<b><i>CSS Examples</i></b> .....	26

# **Color**

**CIELCh(68, 18.781, 213.431)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78AFB8
RGB	120, 175, 184
RGB Percent	47%, 69%, 72%
CMY	0.5305, 0.3148, 0.2795
CMYK	0.35, 0.05, 0.00, 0.28
HSL	188°, 31%, 59%
HSV	188°, 35%, 72%
XYZ	31.6042, 37.9720, 50.8549
YIQ	159.5810, -35.6690, -8.8610

# Conversions

## Conversions Part 2

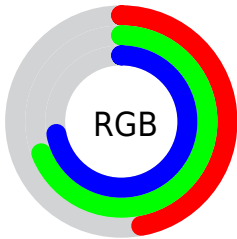
Format	Color
<b>RYB</b>	120, 150, 184
Decimal	7909304
CIELab	68.00, -15.67, -10.35
CIElCh	68, 18.781, 213.431
Yxy	37.9720, 0.2624, 0.3153
Android (android.graphics.Color)	4286099384 (0xFF78AFB8)
YUV	159.5810, 12.0386, -34.7125
Hunter-Lab	61.6215, -16.2892, -5.7957

# Details

The CIELCh color **68, 18.781, 213.431** is a light color, and the websafe version is hex **669999**. A complement of this color would be **59, 24.121, 33.723**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 18.989, 212.671**, and **48, 18.576, 214.392** is the 20% darker color. If you saturate the color by 10%, you get **66, 23.085, 213.955**, and if you desaturate by 10%, it is **70, 13.915, 213.099**.

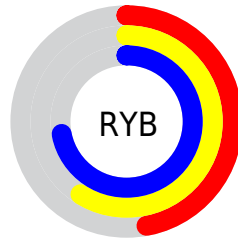
# Distribution



Red (47%)

Green (69%)

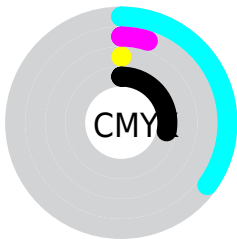
Blue (72%)



Red (47%)

Yellow (59%)

Blue (72%)

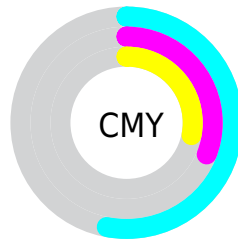


Cyan (35%)

Magenta (5%)

Yellow (0%)

Black (28%)



Cyan (53%)

Magenta (31%)


Yellow (28%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 18.781, 213.431 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 68, 18.781, 213.431 by changing the saturation by 10% instead.





 68, 18.781,  
213.431


 68, 18.781,  
213.431


 100, 18.781,  
213.431


 58, 18.781,  
213.431


 88, 18.781,  
213.431

 48, 18.781,  
213.431

 98, 18.781,  
213.431

 38, 18.781,  
213.431

 28, 18.781,  
213.431

 18, 18.781,  
213.431

 8, 18.781, 213.431

 0, 18.781, 213.431

68, 18.781,  
213.431

68, 18.781,  
213.431

66, 23.085,  
213.955

70, 13.915,  
213.099

65, 26.736,  
214.726

72, 8.581, 212.940

74, 2.870, 213.001

63, 29.663,  
215.792

76, 3.134, 32.691

62, 31.822,  
217.211

78, 9.359, 32.911

61, 33.220,  
219.041

80, 15.744, 33.100

83, 22.239, 33.317

60, 33.922,  
221.332

84, 24.215, 35.598

60, 34.147,  
222.624

85, 23.659, 39.189

# Harmonies

# Complementary

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



68, 18.781, 213.431



59, 24.121, 33.723

# Rectangle

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



68, 18.781, 213.431



68, 18.781, 263.431



68, 18.781, 33.431



68, 18.781, 83.431

# Sweetspot

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



68, 18.781, 213.427



92, 7.274, 212.925



69, 38.789, 145.677



49, 4.941, 212.925



97, 0.011, 296.813



50, 0.007, 296.813



# Same Dimension

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



68, 18.781, 213.427



85, 27.127, 213.824



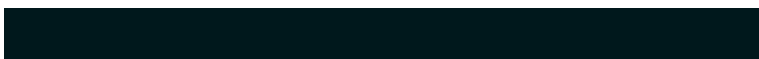
59, 23.909, 273.995



38, 3.326, 212.928



51, 30.213, 222.243



7, 8.791, 219.339





# Inverse Universe

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



59, 38.639, 330.630



71, 57.353, 331.118



67, 24.454, 83.843



36, 6.272, 329.059



35, 71.668, 334.653



3, 16.308, 330.890



# Previews

## White Background



This preview shows how the CIELCh color 68, 18.781, 213.431 looks on a white background.

## Color Contrast Check

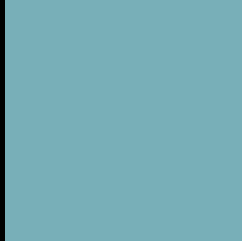
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 68, 18.781, 213.431 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

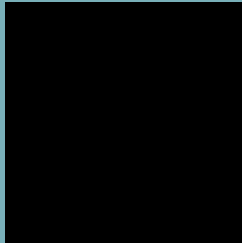
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

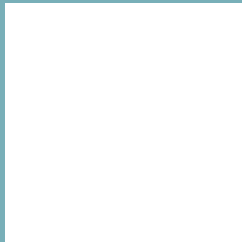
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 68, 18.781, 213.431**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 68, 18.781, 213.431.

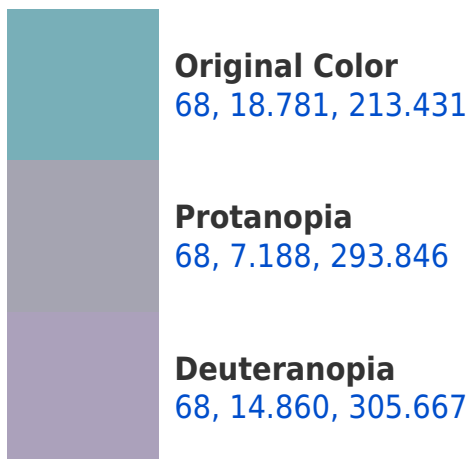


This preview shows how white text looks on a background with the CIELCh color 68, 18.781, 213.431.

# 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





**Tritanopia**  
68, 18.812, 222.525



# Trichromacy



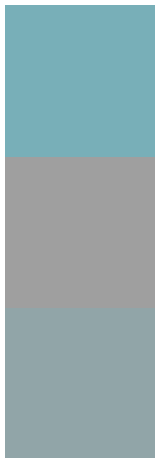
**Original Color**  
68, 18.781, 213.431

**Protanomaly**  
68, 8.973, 241.677

**Deuteranomaly**  
68, 11.954, 266.955

**Tritanomaly**  
68, 18.531, 219.164

# Monochromacy



**Original Color**  
68, 18.781, 213.431

**Achromatopsia**  
65, 0.008, 296.813

**Achromatomaly**  
66, 7.446, 211.787

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 18.781, 213.431 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(120, 175, 184)` looks like.

```
.text, #text, p{  
    color:rgb(120, 175, 184)  
}
```

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(120, 175, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 175, 184) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 18.781, 213.431 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(120, 175, 184) }
```

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

```
.border{ border-color:rgb(120, 175, 184) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 175, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 175, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 175, 184);  
box-shadow:4px 4px 4px 4px rgb(120, 175,  
184) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 18.781, 213.431 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 175, 184) }
```

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

```
.background{ background-color: rgb(120,  
175, 184) }
```

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](#).

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