

# Converting Colors

CIELCh(72, 23.235, 219.184)

Have a look what the booklet for  
CIELCh(72, 23.235, 219.184)  
contains.

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# **Color**

**CIELCh(72, 23.201, 218.650)**

# Conversions

## Conversions Part 1

Format	Color
Hex	75BBCA
RGB	117, 187, 202
RGB Percent	46%, 73%, 79%
CMY	0.5406, 0.2661, 0.2073
CMYK	0.42, 0.07, 0.00, 0.21
HSL	191°, 45%, 63%
HSV	191°, 42%, 79%
XYZ	35.8293, 43.6590, 62.4996
YIQ	167.7800, -46.5350, -10.1750

# Conversions

## Conversions Part 2

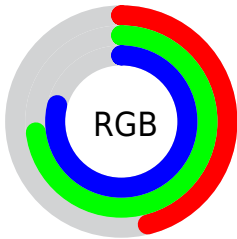
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	117, 155, 202
Decimal	7715786
CIE Lab	72.00, -18.12, -14.49
CIE LCh	72, 23.201, 218.650
Yxy	43.6590, 0.2523, 0.3075
Android (android.graphics.Color)	4285905866 (0xFF75BBCA)
YUV	167.7800, 16.8705, -44.5341
Hunter-Lab	66.0750, -18.8391, -9.8293

# Details

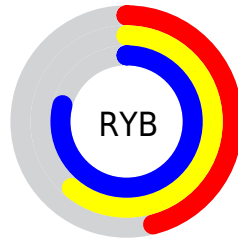
The CIELCh color **72, 23.201, 218.650** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **62, 31.655, 37.356**, and the grayscale version is **69, 0.009, 296.813**.

A 20% lighter version of the original color is **92, 22.730, 214.068**, and **52, 23.338, 218.017** is the 20% darker color. If you saturate the color by 10%, you get **70, 27.289, 219.676**, and if you desaturate by 10%, it is **74, 18.461, 217.905**.

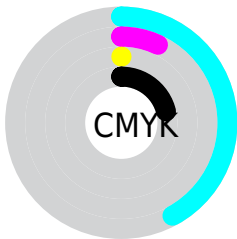
# Distribution



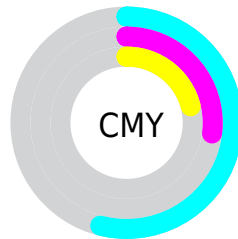
- Red (46%)
- Green (73%)
- Blue (79%)



- Red (46%)
- Yellow (61%)
- Blue (79%)



- Cyan (42%)
- Magenta (7%)
- Yellow (0%)
- Black (21%)




- Cyan (54%)
- Magenta (27%)
- Yellow (21%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 72, 23.201, 218.650 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 72, 23.201, 218.650 by changing the saturation by 10% instead.





 72, 23.201,  
218.650


 72, 23.201,  
218.650


 100, 23.201,  
218.650


 62, 23.201,  
218.650


 92, 23.201,  
218.650

 52, 23.201,  
218.650

 42, 23.201,  
218.650

 32, 23.201,  
218.650

 22, 23.201,  
218.650

 12, 23.201,  
218.650

 2, 23.201, 218.650

0, 23.201, 218.650

72, 23.201,  
218.650

72, 23.201,  
218.650

70, 27.289,  
219.676

74, 18.461,  
217.905

68, 30.645,  
221.056

76, 13.166,  
217.395

67, 33.219,  
222.860

78, 7.413, 217.085

65, 35.010,  
225.167

81, 1.294, 217.236

64, 36.084,  
228.038

83, 5.109, 36.607

63, 36.599,  
230.657

86, 11.724, 36.659

88, 17.134, 37.968

■ 89, 16.557, 45.259

■ 90, 16.271, 52.933

# Harmonies

# Complementary

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



72, 23.201, 218.650



62, 31.655, 37.356

# Rectangle

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



72, 23.201, 218.650



72, 23.201, 268.650



72, 23.201, 38.650



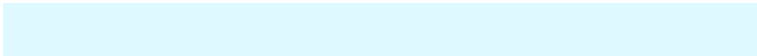
72, 23.201, 88.650

# Sweetspot

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



72, 23.201, 218.647



96, 9.627, 217.110



75, 49.136, 145.935



51, 6.694, 217.167



0, 0.000, 0.000



53, 0.007, 296.813



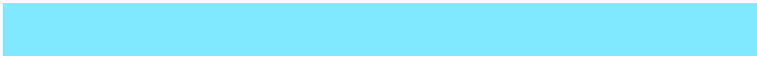


# Same Dimension

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



72, 23.201, 218.647



87, 31.891, 219.516



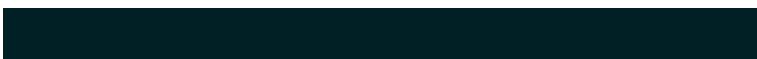
60, 32.730, 278.291



42, 3.540, 217.040



52, 31.567, 230.111



10, 11.785, 222.283



# Inverse Universe

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



61, 48.823, 332.391



71, 69.010, 332.976



72, 32.955, 85.633



40, 6.671, 330.263



38, 73.037, 336.675

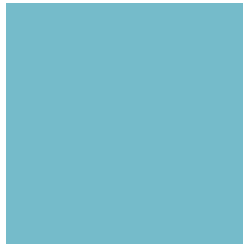


5, 25.142, 334.267



# Previews

## White Background



This preview shows how the CIELCh color 72, 23.201, 218.650 looks on a white background.

## Color Contrast Check

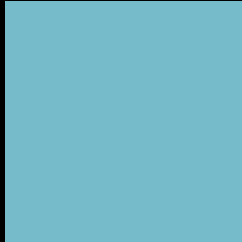
Large Text (above 18pt) WCAG AA × Fail

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 72, 23.201, 218.650 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

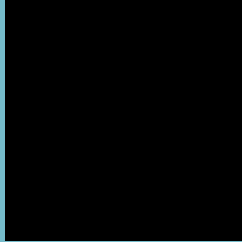
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

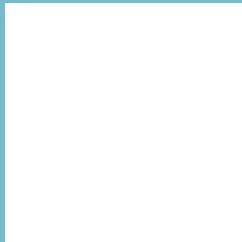
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 72, 23.201, 218.650

## Background



This preview shows how black text looks on a background with the CIELCh color 72, 23.201, 218.650.



This preview shows how white text looks on a background with the CIELCh color 72, 23.201, 218.650.

# 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

72, 23.201, 218.650

### Protanopia

72, 10.912, 289.373

### Deuteranopia

72, 18.779, 299.449





**Tritanopia**  
72, 23.201, 218.650

# Trichromacy



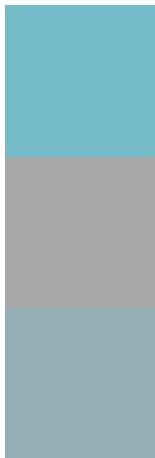
**Original Color**  
72, 23.201, 218.650

**Protanomaly**  
72, 13.058, 247.896

**Deuteranomaly**  
71, 16.145, 265.417

**Tritanomaly**  
72, 23.201, 218.650

# Monochromacy



**Original Color**  
72, 23.201, 218.650

**Achromatopsia**  
69, 0.009, 296.813

**Achromatomaly**  
70, 9.267, 216.020

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 23.201, 218.650 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(117, 187, 202)` looks like.

```
.text, #text, p{  
    color:rgb(117, 187, 202)  
}
```

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(117, 187, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 187, 202) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 23.201, 218.650 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(117, 187, 202) }
```

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

```
.border{ border-color:rgb(117, 187, 202) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 187, 202)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 187, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 187, 202);  
box-shadow:4px 4px 4px 4px rgb(117, 187,  
202) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 23.201, 218.650 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 187, 202) }
```

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

```
.background{ background-color: rgb(117,  
187, 202) }
```

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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