

# Converting Colors

CIELCh(71, 12.114, 196.999)

Have a look what the booklet for  
CIELCh(71, 12.114, 196.999)  
contains.

<b>CIELCh(71, 12.066, 198.463)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(71, 12.066, 198.463)**

# Conversions

## Conversions Part 1

Format	Color
Hex	92B4B4
RGB	146, 180, 180
RGB Percent	57%, 71%, 71%
CMY	0.4264, 0.2931, 0.2931
CMYK	0.19, 0.00, 0.00, 0.29
HSL	180°, 19%, 64%
HSV	180°, 19%, 71%
XYZ	36.5375, 42.1875, 49.5358
YIQ	169.8340, -20.2640, -7.2080

# Conversions

## Conversions Part 2

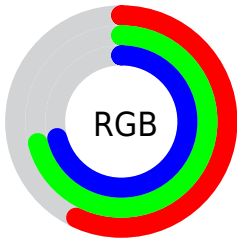
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	146, 163, 180
Decimal	9614516
CIE <sub>Lab</sub>	71.00, -11.44, -3.82
CIE <sub>LCh</sub>	71, 12.066, 198.463
Yxy	42.1875, 0.2849, 0.3289
Android (android.graphics.Color)	4287804596 (0xFF92B4B4)
YUV	169.8340, 5.0118, -20.9024
Hunter-Lab	64.9519, -13.2539, 0.2487

# Details

The CIELCh color **71, 12.066, 198.463** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **64, 13.630, 20.700**, and the grayscale version is **70, 0.009, 296.813**.

A 20% lighter version of the original color is **91, 12.267, 198.637**, and **51, 11.886, 198.192** is the 20% darker color. If you saturate the color by 10%, you get **70, 17.842, 197.982**, and if you desaturate by 10%, it is **72, 5.830, 199.007**.

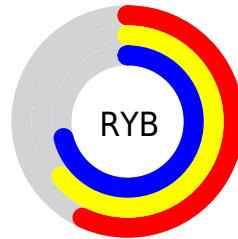
# Distribution



Red (57%)

Green (71%)

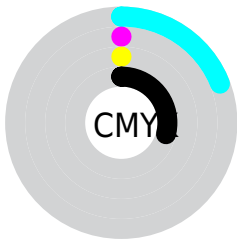
Blue (71%)



Red (57%)

Yellow (64%)

Blue (71%)

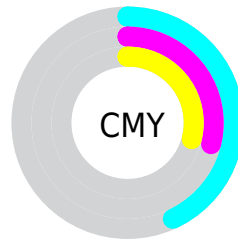


Cyan (19%)

Magenta (0%)

Yellow (0%)

Black (29%)



Cyan (43%)

Magenta (29%)


Yellow (29%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 71, 12.066, 198.463 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 71, 12.066, 198.463 by changing the saturation by 10% instead.




 71, 12.066,  
198.463

 71, 12.066,  
198.463


 100, 12.066,  
198.463


 61, 12.066,  
198.463


 91, 12.066,  
198.463

 51, 12.066,  
198.463

 41, 12.066,  
198.463

 31, 12.066,  
198.463

 21, 12.066,  
198.463

 11, 12.066,  
198.463

 1, 12.066, 198.463

0, 12.066, 198.463

71, 12.066,  
198.463

71, 12.066,  
198.463

70, 17.842,  
197.982

72, 5.830, 199.007

69, 23.050,  
197.567

74, 0.764, 18.793

68, 27.590,  
197.213

75, 7.623, 19.966

68, 31.376,  
196.921

78, 21.820, 21.212

67, 34.353,  
196.695

80, 29.034, 21.836

67, 36.502,  
196.533

80, 29.269, 21.855

80, 29.269, 21.853

■ 67, 37.854,  
196.432

■ 80, 29.269, 21.851

■ 67, 38.561,  
196.378

■ 67, 38.630,  
196.373

# Harmonies

# Complementary

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



71, 12.066, 198.463



64, 13.630, 20.700

# Rectangle

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



71, 12.066, 198.463



71, 12.066, 248.463



71, 12.066, 18.463



71, 12.066, 68.463

# Sweetspot

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



71, 12.067, 198.457



92, 4.921, 199.192



70, 22.614, 142.849



49, 3.256, 199.146



96, 0.011, 296.813



49, 0.007, 296.813





# Same Dimension

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



71, 12.067, 198.457



89, 17.959, 198.235



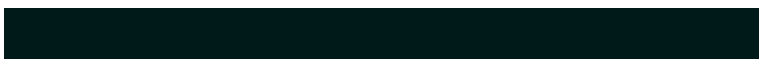
66, 10.867, 256.219



37, 3.691, 198.979



57, 34.228, 196.373



7, 9.138, 199.091



# Inverse Universe

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



64, 13.630, 20.700



78, 20.947, 21.134



68, 11.469, 71.317



35, 3.911, 19.905



31, 70.927, 39.523



2, 9.156, 19.399



# Previews

## White Background



This preview shows how the CIELCh color 71, 12.066, 198.463 looks on a white background.

## Color Contrast Check

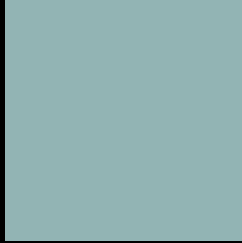
Large Text (above 18pt) WCAG AA × Fail

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 71, 12.066, 198.463 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

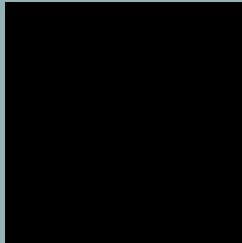
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

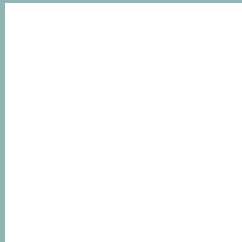
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 71, 12.066, 198.463**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 71, 12.066, 198.463.

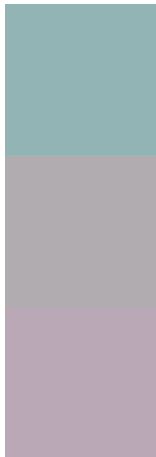


This preview shows how white text looks on a background with the CIELCh color 71, 12.066, 198.463.

# 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

71, 12.066, 198.463

### Protanopia

71, 2.670, 324.477

### Deuteranopia

71, 10.632, 329.944





**Tritanopia**  
71, 12.720, 239.095

# Trichromacy



**Original Color**  
71, 12.066, 198.463

**Protanomaly**  
71, 3.992, 223.523

**Deuteranomaly**  
71, 5.472, 290.730

**Tritanomaly**  
71, 11.740, 223.519

# Monochromacy



**Original Color**  
71, 12.066, 198.463

**Achromatopsia**  
70, 0.009, 296.813

**Achromatomaly**  
70, 4.790, 199.105

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 71, 12.066, 198.463 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(146, 180, 180)` looks like.

```
.text, #text, p{  
    color:rgb(146, 180, 180)  
}
```

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(146, 180, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(146, 180, 180) }
```

## Border

The CSS property to change the border of an element to CIELCh 71, 12.066, 198.463 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(146, 180, 180) }
```

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

```
.border{ border-color:rgb(146, 180, 180) }
```

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

Here you see how a box with a 4 pixel rgb(146, 180, 180) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(146, 180, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(146, 180, 180);  
box-shadow:4px 4px 4px 4px rgb(146, 180,  
180) }
```

# Background

The CSS property to change the background color of an element to CIELCh 71, 12.066, 198.463 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(146, 180, 180) }
```

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

```
.background{ background-color: rgb(146,  
180, 180) }
```

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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