

# Converting Colors

CIELCh(72, 45.647, 166.747)

Have a look what the booklet for  
CIELCh(72, 45.647, 166.747)  
contains.

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**Color**

**CIELCh(72, 45.647, 166.747)**

# Conversions

## Conversions Part 1

Format	Color
Hex	47C59C
RGB	71, 197, 156
RGB Percent	28%, 77%, 61%
CMY	0.7217, 0.2275, 0.3883
CMYK	0.64, 0.00, 0.21, 0.23
HSL	160°, 52%, 53%
HSV	160°, 64%, 77%
XYZ	28.5557, 43.6590, 38.3639
YIQ	154.6520, -61.9350, -39.4630

# Conversions

## Conversions Part 2

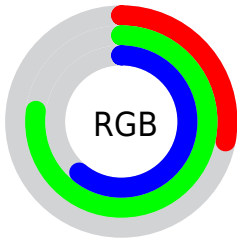
Format	Color
<a href="#">RYB</a>	<a href="#">71, 146, 197</a>
Decimal	<a href="#">4703644</a>
CIELab	<a href="#">72.00, -44.43, 10.46</a>
CIELCh	<a href="#">72, 45.647, 166.747</a>
Yxy	<a href="#">43.6590, 0.2582, 0.3948</a>
Android (android.graphics.Color)	<a href="#">4282893724 (0xFF47C59C)</a>
YUV	<a href="#">154.6520, 0.6646, -73.3628</a>
Hunter-Lab	<a href="#">66.0750, -38.4887, 11.8280</a>

# Details

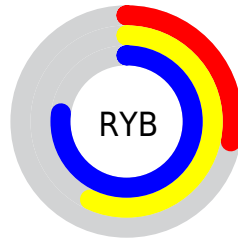
The CIELCh color **72, 45.647, 166.747** is a dark color, and the websafe version is hex **66CC99**. The color can be described as middle muted spring green. A complement of this color would be **49, 53.713, 4.050**, and the grayscale version is **64, 0.008, 296.813**.

A 20% lighter version of the original color is **92, 45.297, 167.164**, and **52, 43.151, 165.620** is the 20% darker color. If you saturate the color by 10%, you get **71, 50.668, 165.060**, and if you desaturate by 10%, it is **73, 39.855, 168.253**.

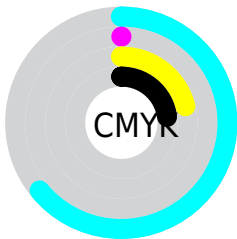
# Distribution



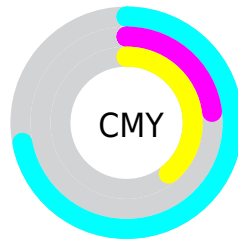
- Red (28%)
- Green (77%)
- Blue (61%)



- Red (28%)
- Yellow (57%)
- Blue (77%)



- Cyan (64%)
- Magenta (0%)
- Yellow (21%)
- Black (23%)




- Cyan (72%)
- Magenta (23%)
- Yellow (39%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 72, 45.647, 166.747 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, 45.647, 166.747 by changing the saturation by 10% instead.





 72, 45.647,  
166.747


 72, 45.647,  
166.747


 100, 45.647,  
166.747


 62, 45.647,  
166.747


 92, 45.647,  
166.747

 52, 45.647,  
166.747

 42, 45.647,  
166.747

 32, 45.647,  
166.747

 22, 45.647,  
166.747

 12, 45.647,  
166.747

 2, 45.647, 166.747

0, 45.647, 166.747

72, 45.647,  
166.747

72, 45.647,  
166.747

71, 50.668,  
165.060

73, 39.855,  
168.253

71, 54.879,  
163.174

74, 33.381,  
169.603

71, 58.314,  
161.088

75, 26.345,  
170.823

71, 60.144,  
159.791

76, 18.880,  
171.936

77, 11.117,  
172.969

79, 3.174, 174.014

■ 81, 4.849, 354.650

■ 82, 12.867,  
355.534

■ 84, 20.820,  
356.328

# Harmonies

# Complementary

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



72, 45.647, 166.747



49, 53.713, 4.050

# Rectangle

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



72, 45.647, 166.747



72, 45.647, 216.747



72, 45.647, 346.747



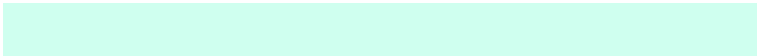
72, 45.647, 36.747

# Sweetspot

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



72, 45.647, 166.746



96, 18.557, 172.427



72, 71.729, 131.631



51, 12.730, 172.124



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, 45.647, 166.746



90, 63.812, 164.290



67, 30.688, 219.788



41, 4.563, 173.428



59, 52.023, 160.124



11, 17.154, 165.918



# Inverse Universe

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



49, 53.713, 4.050



58, 76.196, 8.680



52, 51.489, 38.394



39, 4.677, 355.046



34, 61.934, 18.204

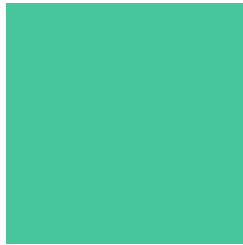


4, 16.630, 2.940



# Previews

## White Background



This preview shows how the CIE LCh color 72, 45.647, 166.747 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, 45.647, 166.747 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

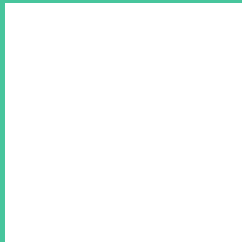
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 72, 45.647, 166.747**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 72, 45.647, 166.747.

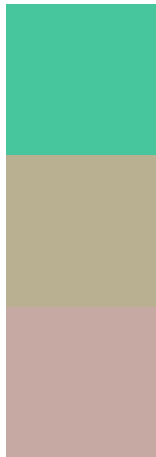


This preview shows how white text looks on a background with the CIELCh color 72, 45.647, 166.747.

# 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, 45.647, 166.747

### Protanopia

72, 16.746, 94.649

### Deuteranopia

71, 11.668, 39.169





**Tritanopia**  
72, 29.844, 214.523

# Trichromacy



## Original Color

72, 45.647, 166.747



## Protanomaly

71, 23.799, 146.715



## Deuteranomaly

70, 14.867, 154.034



## Tritanomaly

72, 33.110, 192.131

# Monochromacy



## Original Color

72, 45.647, 166.747



## Achromatopsia

64, 0.008, 296.813



## Achromatomaly

66, 18.844, 171.586

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 45.647, 166.747 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(71, 197, 156)` looks like.

```
.text, #text, p{  
    color:rgb(71, 197, 156)  
}
```

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(71, 197, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 197, 156) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 45.647, 166.747 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(71, 197, 156) }
```

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

```
.border{ border-color:rgb(71, 197, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 197, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 197, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 197, 156);  
box-shadow:4px 4px 4px 4px rgb(71, 197,  
156) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 45.647, 166.747 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 197, 156) }
```

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

```
.background{ background-color: rgb(71, 197,  
156) }
```

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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