

# Converting Colors

CIELCh(72, 6.902, 49.600)

Have a look what the booklet for  
CIELCh(72, 6.902, 49.600) contains.

<b>CIELCh(72, 6.983, 47.518)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# **Color**

**CIELCh(72, 6.983, 47.518)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BDADA7
RGB	189, 173, 167
RGB Percent	74%, 68%, 65%
CMY	0.2576, 0.3204, 0.3439
CMYK	0.00, 0.08, 0.12, 0.26
HSL	16°, 14%, 70%
HSV	16°, 12%, 74%
XYZ	43.0637, 43.6590, 42.8591
YIQ	177.1000, 11.4620, 1.5260

# Conversions

## Conversions Part 2

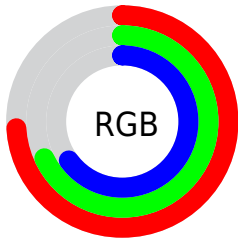
Format	Color
<a href="#">RYB</a>	<a href="#">189, 175, 167</a>
Decimal	<a href="#">12430759</a>
CIELab	<a href="#">72.00, 4.72, 5.15</a>
CIELCh	<a href="#">72, 6.983, 47.518</a>
Yxy	<a href="#">43.6590, 0.3323, 0.3369</a>
Android (android.graphics.Color)	<a href="#">4290620839</a> ( <a href="#">0xFFBDADA7</a> )
YUV	<a href="#">177.1000, -4.9793, 10.4363</a>
Hunter-Lab	<a href="#">66.0750, 0.7044, 7.7944</a>

# Details

The CIELCh color  $72, 6.983, 47.518$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $73, 6.534, 229.034$ , and the grayscale version is  $72, 0.009, 296.813$ .

A 20% lighter version of the original color is  $92, 6.922, 46.203$ , and  $52, 7.150, 48.884$  is the 20% darker color. If you saturate the color by 10%, you get  $68, 13.507, 47.124$ , and if you desaturate by 10%, it is  $76, 0.937, 47.594$ .

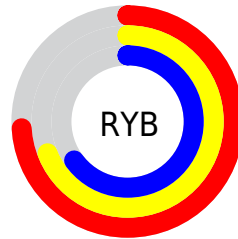
# Distribution



Red (74%)

Green (68%)

Blue (65%)



Red (74%)

Yellow (69%)

Blue (65%)

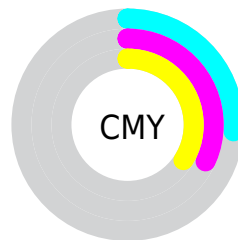


Cyan (0%)

Magenta (8%)

Yellow (12%)

Black (26%)



Cyan (26%)

Magenta (32%)

Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 72, 6.983, 47.518 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, 6.983, 47.518 by changing the saturation by 10% instead.



 72, 6.983, 47.518

 72, 6.983, 47.518

 100, 6.983, 47.518

 62, 6.983, 47.518

 92, 6.983, 47.518

 52, 6.983, 47.518

 42, 6.983, 47.518

 32, 6.983, 47.518

 22, 6.983, 47.518

 12, 6.983, 47.518

 2, 6.983, 47.518

 0, 6.983, 47.518

 72, 6.983, 47.518

 72, 6.983, 47.518

68, 13.507, 47.124

76, 0.937, 47.594

64, 20.554, 46.783

80, 4.678, 228.796

60, 28.153, 46.553

84, 9.910, 229.337

57, 36.310, 46.460

88, 14.806,  
229.937

53, 44.972, 46.514

92, 18.136,  
220.079

50, 53.982, 46.681

47, 62.959, 46.829

96, 21.305,  
198.105

45, 71.057, 46.608

43, 76.704, 46.138

# Harmonies

# Complementary

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



72, 6.983, 47.518



73, 6.534, 229.034

# Rectangle

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



72, 6.983, 47.518



72, 6.983, 97.518



72, 6.983, 227.518



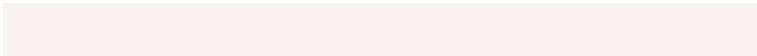
72, 6.983, 277.518

# Sweetspot

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



72, 6.983, 47.537



96, 2.165, 47.766



71, 12.084, 333.712



51, 1.660, 47.783



99, 0.012, 296.813



52, 0.007, 296.813

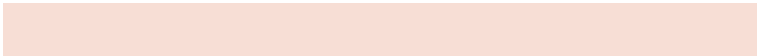


# Same Dimension

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



72, 6.983, 47.537



90, 10.555, 47.426



75, 9.276, 96.964



38, 3.365, 47.631



36, 66.795, 46.566



4, 10.448, 38.202



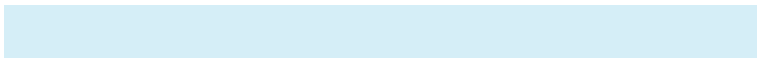


# Inverse Universe

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



73, 6.534, 229.034



93, 9.718, 229.223



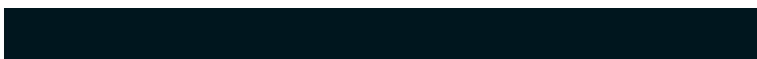
71, 9.371, 279.781



38, 3.194, 228.886



45, 32.781, 250.251



6, 9.551, 241.078



# Previews

## White Background



This preview shows how the CIELCh color 72, 6.983, 47.518 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 CIELCh color 72, 6.983, 47.518 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

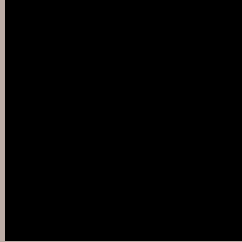
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 72, 6.983, 47.518**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 72, 6.983, 47.518.



This preview shows how white text looks on a background with the CIELCh color 72, 6.983, 47.518.

# 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, 6.983, 47.518

### Protanopia

72, 4.418, 78.516

### Deuteranopia

72, 10.229, 29.314



**Tritanopia**  
72, 10.599, 338.531



# Trichromacy



**Original Color**  
72, 6.983, 47.518

**Protanomaly**  
72, 5.387, 64.283

**Deuteranomaly**  
72, 8.795, 34.272

**Tritanomaly**  
72, 7.907, 355.756

# Monochromacy



**Original Color**  
72, 6.983, 47.518

**Achromatopsia**  
72, 0.009, 296.813

**Achromatomaly**  
72, 2.481, 60.266

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 6.983, 47.518 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(189, 173, 167)` looks like.

```
.text, #text, p{  
    color:rgb(189, 173, 167)  
}
```

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(189, 173, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 173, 167) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 6.983, 47.518 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(189, 173, 167) }
```

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

```
.border{ border-color:rgb(189, 173, 167) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 173, 167)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 173, 167); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 173, 167);  
box-shadow:4px 4px 4px 4px rgb(189, 173,  
167) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 6.983, 47.518 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 173, 167) }
```

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

```
.background{ background-color: rgb(189,  
173, 167) }
```

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