

# Converting Colors

CIELCh(100, 3.771, 300.130)

Have a look what the booklet for  
CIELCh(100, 3.771, 300.130)  
contains.

<b>CIELCh(100, 0.630, 323.973)</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> .....	19
<b><i>Color Blindness Simulation</i></b> .....	22
<b><i>CSS Examples</i></b> .....	25

# Color

**CIELCh(100, 0.630, 323.973)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFFF
RGB	255, 255, 255
RGB Percent	100%, 100%, 100%
CMY	0.0000, 0.0011, 0.0000
CMYK	0.00, 0.00, 0.00, 0.00
HSL	300°, 100%, 100%
HSV	300°, 0%, 100%
XYZ	95.3379, 100.0000, 109.4893
YIQ	255.0000, -0.0000, -0.0000

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 255, 255
Decimal	16777215
CIE Lab	100.00, 0.51, -0.37
CIE LCh	100, 0.630, 323.973
Yxy	100.0000, 0.3128, 0.3281
Android (android.graphics.Color)	4294967295 (0xFFFFFFFF)
YUV	255.0000, 0.0000, 0.0000
Hunter-Lab	100.0000, -4.8219, 5.0838

# Details

The CIELCh color 100, 0.630, 323.973 is a light color, and the websafe version is hex FFFFFFFF, and the color name is [white](#). A complement of this color would be 100, 0.163, 146.338, and the grayscale version is 100, 0.012, 296.813.

A 20% lighter version of the original color is 100, 0.012, 296.813, and **80, 0.010, 296.813** is the 20% darker color. If you saturate the color by 10%, you get **94, 16.110, 324.982**, and if you desaturate by 10%, it is 100, 0.012, 296.813.

# Distribution



- Red (100%)
- Green (100%)
- Blue (100%)



- Red (100%)
- Yellow (100%)
- Blue (100%)



- Cyan (0%)
- Magenta (0%)
- Yellow (0%)
- Black (0%)



- Cyan (0%)
- Magenta (0%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 100, 0.630, 323.973 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 100, 0.630, 323.973 by changing the saturation by 10% instead.




100, 0.630,  
323.973

100, 0.630,  
323.973

 90, 0.630, 323.973

 94, 16.110,  
324.982

 80, 0.630, 323.973


 88, 32.159,  
325.543

 70, 0.630, 323.973

 60, 0.630, 323.973


 82, 48.065,  
326.086

 50, 0.630, 323.973


 77, 63.450,  
326.599

 40, 0.630, 323.973

 30, 0.630, 323.973

 72, 77.814,  
327.067

 20, 0.630, 323.973

 68, 90.555,  
327.471

 10, 0.630, 323.973

 65, 101.044,

327.796

■ 62, 108.761,  
328.030

■ 61, 113.471,  
328.170

100, 0.630,  
323.973

100, 0.012,  
296.813

# Harmonies

# Complementary

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

100, 0.630, 323.973

100, 0.163, 146.338

# Rectangle

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

100, 0.630, 323.973

100, 0.630, 13.973

100, 0.630, 143.973

100, 0.630, 193.973

# Sweetspot

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

100, 0.184, 322.760

100, 0.012, 296.813

100, 0.153, 290.692



53, 0.007, 296.813



0, 0.000, 0.000

# Same Dimension

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

100, 0.184, 322.760

100, 0.012, 296.813

100, 0.130, 339.896



53, 0.007, 296.813



45, 93.083, 328.233



12, 42.823, 328.233





# Inverse Universe

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

100, 0.184, 322.760

100, 0.012, 296.813

100, 0.114, 167.934



53, 0.007, 296.813



45, 93.083, 328.233



12, 42.823, 328.233



# Previews

## 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 100, 0.630, 323.973 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 100, 0.630, 323.973**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 100, 0.630, 323.973.

# 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

100, 0.012, 296.813

### Protanopia

100, 0.012, 296.813

### Deuteranopia

100, 0.012, 296.813

**Tritanopia**  
100, 0.012, 296.813

# Trichromacy

## Original Color

100, 0.012, 296.813

## Protanomaly

100, 0.012, 296.813

## Deuteranomaly

100, 0.012, 296.813

## Tritanomaly

100, 0.012, 296.813

# Monochromacy

## Original Color

100, 0.012, 296.813

## Achromatopsia

100, 0.012, 296.813

## Achromatomaly

100, 0.012, 296.813



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 100, 0.630, 323.973 is called "color". The color property can be set on classes, ids or directly on the HTML element.

```
.text, #text, p{  
    color:rgb(255, 255, 255)  
}
```

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(255, 255, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 100, 0.630, 323.973 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(255, 255, 255) }
```

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

```
.border{ border-color:rgb(255, 255, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 255, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 100, 0.630, 323.973 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 255, 255) }
```

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

```
.background{ background-color: rgb(255,  
255, 255) }
```

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