

# Converting Colors

CIELCh(48, 89.201, 293.213)

Have a look what the booklet for  
CIELCh(48, 89.201, 293.213)  
contains.

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**Color**

**CIELCh(48, 89.247, 293.251)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	0366FF
RGB	3, 102, 255
RGB Percent	1%, 40%, 100%
CMY	0.9896, 0.5992, 0.0000
CMYK	0.99, 0.60, 0.00, 0.00
HSL	216°, 100%, 51%
HSV	216°, 99%, 100%
XYZ	22.8929, 16.7945, 96.8508
YIQ	89.8410, -108.1170, 26.5950

# Conversions

## Conversions Part 2

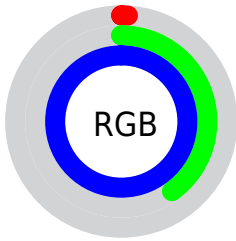
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	3, 74, 255
Decimal	222975
CIE Lab	48.00, 35.23, -82.00
CIE LCh	48, 89.247, 293.251
Yxy	16.7945, 0.1677, 0.1230
Android (android.graphics.Color)	4278413055 (0xFF0366FF)
YUV	89.8410, 81.4234, -76.1596
Hunter-Lab	40.9810, 27.9970, -111.4337

# Details

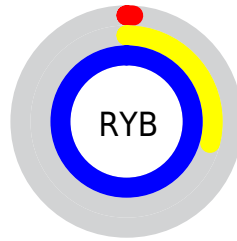
The CIELCh color **48, 89.247, 293.251** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark saturated azure. A complement of this color would be **73, 82.491, 69.475**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **64, 57.564, 286.227**, and **32, 86.474, 299.019** is the 20% darker color. If you saturate the color by 10%, you get **48, 90.131, 293.610**, and if you desaturate by 10%, it is **52, 79.402, 289.246**.

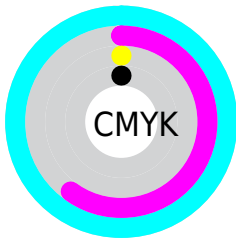
# Distribution



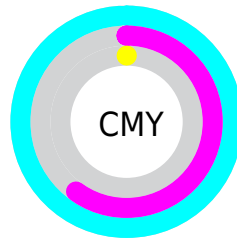
- Red (1%)
- Green (40%)
- Blue (100%)



- Red (1%)
- Yellow (29%)
- Blue (100%)



- Cyan (99%)
- Magenta (60%)
- Yellow (0%)
- Black (0%)




- Cyan (99%)
- Magenta (60%)
- Yellow (0%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 89.247, 293.251 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 48, 89.247, 293.251 by changing the saturation by 10% instead.





 48, 89.247,  
293.251


 48, 89.247,  
293.251


 100, 89.247,  
293.251


 38, 89.247,  
293.251

 68, 89.247,  
293.251


 28, 89.247,  
293.251

 78, 89.247,  
293.251

 18, 89.247,  
293.251


 88, 89.247,  
293.251

 8, 89.247, 293.251

 98, 89.247,  
293.251

 0, 89.247, 293.251

 48, 89.247,

 48, 89.247,

293.251

■ 48, 90.131,  
293.610

293.251

■ 52, 79.402,  
289.246

■ 57, 69.873,  
285.265

■ 62, 60.590,  
281.527

■ 67, 51.519,  
278.162

■ 72, 42.600,  
275.218

■ 78, 33.778,  
272.687

■ 84, 25.025,  
270.532

■ 89, 16.329,  
268.705



# Harmonies

# Complementary

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



48, 89.247, 293.251



73, 82.491, 69.475

# Rectangle

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



48, 89.247, 293.251



48, 89.247, 343.251



48, 89.247, 113.251



48, 89.247, 163.251

# Sweetspot

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



48, 89.115, 293.224



83, 25.931, 270.740



89, 80.062, 154.516



42, 17.716, 271.621



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



48, 89.115, 293.224



48, 90.131, 293.610



33, 132.780, 306.499



50, 4.881, 267.243



36, 71.265, 292.900



10, 28.620, 287.229



# Inverse Universe

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



54, 84.838, 12.825



54, 85.113, 13.364



95, 97.434, 109.040



50, 5.968, 350.578



41, 68.398, 12.345



10, 31.293, 5.259



# Previews

## White Background



This preview shows how the CIELCh color 48, 89.247, 293.251 looks on a white background.

## Color Contrast Check

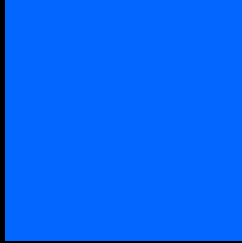
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 48, 89.247, 293.251 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

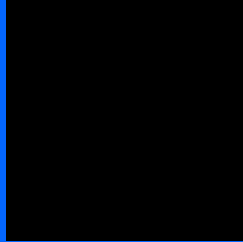
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

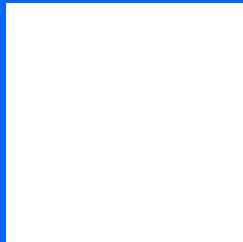
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 48, 89.247, 293.251

## Background



This preview shows how black text looks on a background with the CIELCh color 48, 89.247, 293.251.



This preview shows how white text looks on a background with the CIELCh color 48, 89.247, 293.251.

# 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

48, 89.238, 293.283

### Protanopia

48, 71.914, 287.379

### Deuteranopia

48, 50.319, 274.513





**Tritanopia**  
48, 28.876, 204.902

# Trichromacy



**Original Color**  
48, 89.238, 293.283

**Protanomaly**  
48, 78.028, 289.697

**Deuteranomaly**  
48, 64.200, 283.966

**Tritanomaly**  
47, 39.709, 262.907

# Monochromacy



**Original Color**  
48, 89.238, 293.283

**Achromatopsia**  
38, 0.005, 296.813

**Achromatomaly**  
40, 34.971, 278.499

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 89.247, 293.251 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(3, 102, 255)` looks like.

```
.text, #text, p{  
    color:rgb(3, 102, 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(3, 102, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(3, 102, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 89.247, 293.251 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(3, 102, 255) }
```

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

```
.border{ border-color:rgb(3, 102, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(3, 102, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(3, 102, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(3, 102, 255);  
box-shadow:4px 4px 4px 4px rgb(3, 102,  
255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 89.247, 293.251 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(3, 102, 255) }
```

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

```
.background{ background-color: rgb(3, 102,  
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](#).

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