

Converting Colors

CIELCh(49, 88.395, 293.738)

Have a look what the booklet for
CIELCh(49, 88.395, 293.738)
contains.

CIELCh(49, 87.766, 293.631)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(49, 87.766, 293.631)

Conversions

Conversions Part 1

Format	Color
Hex	2568FF
RGB	37, 104, 255
RGB Percent	15%, 41%, 100%
CMY	0.8553, 0.5910, 0.0000
CMYK	0.86, 0.59, 0.00, 0.00
HSL	221°, 100%, 57%
HSV	221°, 86%, 100%
XYZ	23.8462, 17.5941, 97.0501
YIQ	101.1810, -88.4030, 32.7570

Conversions

Conversions Part 2

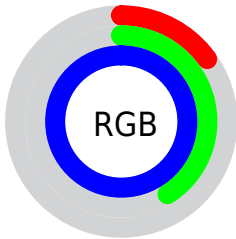
Format	Color
R _Y B	37, 88, 255
Decimal	2451711
CIE Lab	49.00, 35.18, -80.41
CIE LCh	49, 87.766, 293.631
Yxy	17.5941, 0.1722, 0.1270
Android (android.graphics.Color)	4280641791 (0xFF2568FF)
YUV	101.1810, 75.8328, -56.2867
Hunter-Lab	41.9453, 28.0743, -107.8194

Details

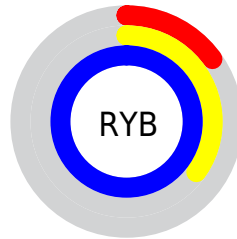
The CIELCh color **49, 87.766, 293.631** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark washed azure. A complement of this color would be **80, 77.883, 80.671**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 55.615, 286.943**, and **32, 85.845, 298.777** is the 20% darker color. If you saturate the color by 10%, you get **44, 98.770, 297.121**, and if you desaturate by 10%, it is **54, 76.356, 290.051**.

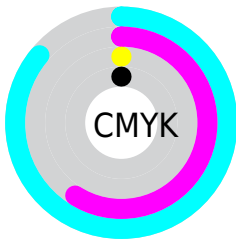
Distribution



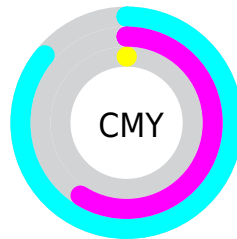
- Red (15%)
- Green (41%)
- Blue (100%)



- Red (15%)
- Yellow (35%)
- Blue (100%)



- Cyan (86%)
- Magenta (59%)
- Yellow (0%)
- Black (0%)





- Cyan (86%)
- Magenta (59%)
- Yellow (0%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 87.766, 293.631 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 49, 87.766, 293.631 by changing the saturation by 10% instead.


 49, 87.766,
293.631


 49, 87.766,
293.631


 100, 87.766,
293.631


 39, 87.766,
293.631

 69, 87.766,
293.631


 29, 87.766,
293.631

 79, 87.766,
293.631

 19, 87.766,
293.631

 89, 87.766,
293.631

 9, 87.766, 293.631

 99, 87.766,
293.631

 0, 87.766, 293.631

 49, 87.766,

 49, 87.766,

293.631

■ 44, 98.770,
297.121

■ 42, 103.648,
298.584

293.631

■ 54, 76.356,
290.051

■ 60, 65.384,
286.710

■ 66, 54.728,
283.695

■ 72, 44.369,
281.050

■ 78, 34.265,
278.770

■ 84, 24.381,
276.821

■ 90, 14.693,
275.162

■ 97, 5.190, 273.770

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.



49, 87.766, 293.631



80, 77.883, 80.671

Rectangle

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



49, 87.766, 293.631



49, 87.766, 343.631



49, 87.766, 113.631



49, 87.766, 163.631

Sweetspot

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



49, 87.573, 293.593



84, 24.841, 276.906



90, 67.275, 163.237



42, 16.895, 277.551



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



49, 87.573, 293.593



42, 103.648, 298.584



38, 122.343, 306.602



50, 5.351, 274.289



32, 82.010, 297.985



8, 32.916, 293.049

Inverse Universe

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



56, 81.426, 13.777



54, 87.886, 21.533



94, 94.616, 113.120



50, 5.692, 356.192



40, 70.384, 20.444



10, 31.426, 12.112

Previews

White Background



This preview shows how the CIE LCh color 49, 87.766, 293.631 looks on a white background.

Color Contrast Check

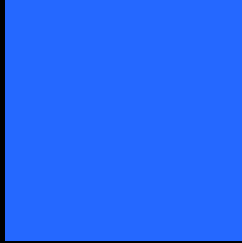
Large Text (above 18pt) WCAG AA ✓ Pass

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 49, 87.766, 293.631 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

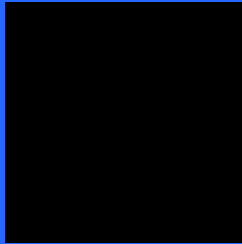
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 49, 87.766, 293.631

Background



This preview shows how black text looks on a background with the CIELCh color 49, 87.766, 293.631.



This preview shows how white text looks on a background with the CIELCh color 49, 87.766, 293.631.

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

49, 87.756, 293.677

Protanopia

49, 72.857, 287.382

Deuteranopia

49, 51.312, 274.808



Tritanopia
49, 29.138, 206.012

Trichromacy



Original Color
49, 87.756, 293.677

Protanomaly
49, 77.816, 289.593

Deuteranomaly
48, 64.016, 283.889

Tritanomaly
48, 39.560, 262.985

Monochromacy



Original Color
49, 87.756, 293.677

Achromatopsia
43, 0.006, 296.813

Achromatomaly
44, 33.406, 282.221

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 87.766, 293.631 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(37, 104, 255)` looks like.

```
.text, #text, p{  
    color:rgb(37, 104, 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(37, 104, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 104, 255) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 87.766, 293.631 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(37, 104, 255) }
```

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

```
.border{ border-color:rgb(37, 104, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(37, 104, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 104, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 104, 255);  
box-shadow:4px 4px 4px 4px rgb(37, 104,  
255) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 87.766, 293.631 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 104, 255) }
```

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

```
.background{ background-color: rgb(37, 104,  
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