

Converting Colors

CIELCh(49, 87.369, 293.713)

Have a look what the booklet for
CIELCh(49, 87.369, 293.713)
contains.

CIELCh(49, 87.722, 293.820)	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, 87.722, 293.820)

Conversions

Conversions Part 1

Format	Color
Hex	2868FF
RGB	40, 104, 255
RGB Percent	16%, 41%, 100%
CMY	0.8423, 0.5919, 0.0000
CMYK	0.84, 0.59, 0.00, 0.00
HSL	222°, 100%, 58%
HSV	222°, 84%, 100%
XYZ	23.9023, 17.5941, 96.8132
YIQ	102.0780, -86.6150, 33.3930

Conversions

Conversions Part 2

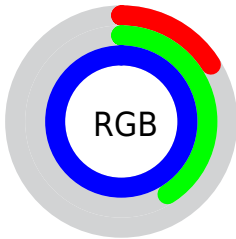
Format	Color
RYP	40, 89, 255
Decimal	2648319
CIELab	49.00, 35.43, -80.25
CIElCh	49, 87.722, 293.820
Yxy	17.5941, 0.1728, 0.1272
Android (android.graphics.Color)	4280838399 (0xFF2868FF)
YUV	102.0780, 75.3905, -54.4424
Hunter-Lab	41.9453, 28.3132, -107.4846

Details

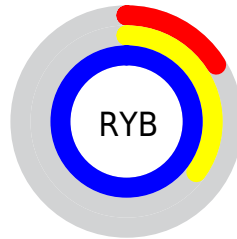
The CIELCh color **49, 87.722, 293.820** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark washed azure. A complement of this color would be **81, 77.470, 81.937**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 55.587, 287.184**, and **32, 85.845, 298.777** is the 20% darker color. If you saturate the color by 10%, you get **44, 99.074, 297.289**, and if you desaturate by 10%, it is **54, 76.256, 290.337**.

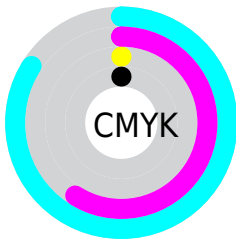
Distribution



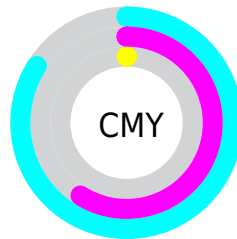
- Red (16%)
- Green (41%)
- Blue (100%)



- Red (16%)
- Yellow (35%)
- Blue (100%)



- Cyan (84%)
- Magenta (59%)
- Yellow (0%)
- Black (0%)



- Cyan (84%)
- Magenta (59%)
- Yellow (0%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 87.722, 293.820 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, 87.722, 293.820 by changing the saturation by 10% instead.


 49, 87.722,
293.820


 49, 87.722,
293.820


 100, 87.722,
293.820


 39, 87.722,
293.820

 69, 87.722,
293.820


 29, 87.722,
293.820

 79, 87.722,
293.820

 19, 87.722,
293.820

 89, 87.722,
293.820

 9, 87.722, 293.820

 99, 87.722,
293.820

 0, 87.722, 293.820

 49, 87.722,

 49, 87.722,

293.820

■ 44, 99.074,
297.289

■ 42, 105.437,
299.151

293.820

■ 54, 76.256,
290.337

■ 60, 65.088,
287.070

■ 66, 54.248,
284.130

■ 72, 43.719,
281.555

■ 78, 33.461,
279.337

■ 85, 23.439,
277.442

■ 91, 13.631,
275.829

■ 97, 4.021, 274.488

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, 87.722, 293.820



81, 77.470, 81.937

Rectangle

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



49, 87.722, 293.820



49, 87.722, 343.820



49, 87.722, 113.820



49, 87.722, 163.820

Sweetspot

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



49, 87.678, 293.813



84, 24.200, 277.577



90, 65.467, 164.759



43, 16.571, 278.217



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, 87.678, 293.813



42, 105.437, 299.151



39, 120.756, 306.730



50, 5.421, 275.156



31, 83.444, 298.568



8, 33.490, 293.697

Inverse Universe

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



56, 80.911, 14.175



54, 88.417, 22.596



94, 94.245, 113.929



50, 5.658, 357.001



40, 70.777, 21.505



10, 31.472, 12.937

Previews

White Background



This preview shows how the CIE LCh color 49, 87.722, 293.820 looks on a white background.

Color Contrast Check

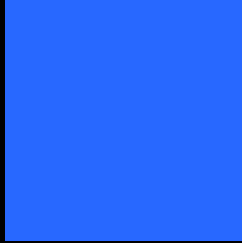
Large Text (above 18pt) WCAG AA ✓ Pass

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, 87.722, 293.820 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

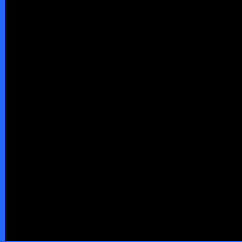
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 49, 87.722, 293.820

Background



This preview shows how black text looks on a background with the CIELCh color 49, 87.722, 293.820.



This preview shows how white text looks on a background with the CIELCh color 49, 87.722, 293.820.

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, 87.722, 293.820

Protanopia

49, 73.398, 287.570

Deuteranopia

49, 51.312, 274.808



Tritanopia
49, 29.138, 206.012

Trichromacy



Original Color
49, 87.722, 293.820

Protanomaly
49, 78.967, 290.131

Deuteranomaly
48, 64.001, 283.958

Tritanomaly
48, 39.514, 263.121

Monochromacy



Original Color
49, 87.722, 293.820

Achromatopsia
43, 0.006, 296.813

Achromatomaly
44, 33.310, 282.607

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 87.722, 293.820 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(40, 104, 255)` looks like.

```
.text, #text, p{  
    color:rgb(40, 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(40, 104, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 104, 255) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 87.722, 293.820 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(40, 104, 255) }
```

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

```
.border{ border-color:rgb(40, 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(40, 104, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 104, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 104, 255);  
box-shadow:4px 4px 4px 4px rgb(40, 104,  
255) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 87.722, 293.820 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 104, 255) }
```

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

```
.background{ background-color: rgb(40, 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