

# Converting Colors

CIELCh(78, 87.998, 230.785)

Have a look what the booklet for  
CIELCh(78, 87.998, 230.785)  
contains.

<b>CIELCh(82, 44.058, 218.284)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	21
<i><b>Color Blindness Simulation</b></i> .....	24
<i><b>CSS Examples</b></i> .....	27

**Color**

**CIELCh(82, 44.058, 218.284)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E0FE
RGB	0, 224, 254
RGB Percent	0%, 88%, 100%
CMY	1.0000, 0.1223, 0.0047
CMYK	1.00, 0.12, 0.00, 0.00
HSL	187°, 100%, 50%
HSV	187°, 100%, 100%
XYZ	44.3562, 60.2982, 102.8915
YIQ	160.4440, -143.1340, -38.1580

# Conversions

## Conversions Part 2

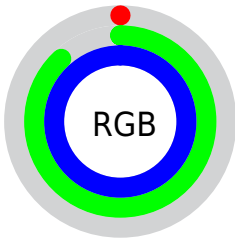
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 119, 254
Decimal	57598
CIELab	82.00, -34.58, -27.30
CIELCh	82, 44.058, 218.284
Yxy	60.2982, 0.2137, 0.2905
Android (android.graphics.Color)	4278247678 (0xFF00E0FE)
YUV	160.4440, 46.1231, -140.7094
Hunter-Lab	77.6519, -33.9284, -24.2050

# Details

The CIELCh color **82, 44.058, 218.284** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light saturated cyan. A complement of this color would be **54, 102.242, 41.193**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **93, 39.067, 197.028**, and **63, 35.906, 224.198** is the 20% darker color. If you saturate the color by 10%, you get **82, 43.889, 218.379**, and if you desaturate by 10%, it is **83, 43.542, 216.233**.

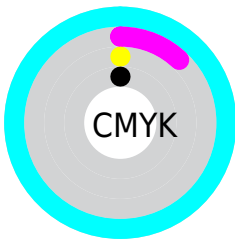
# Distribution



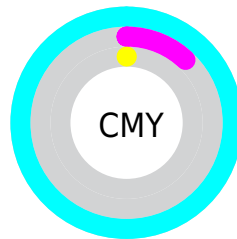
- Red (0%)
- Green (88%)
- Blue (100%)



- Red (0%)
- Yellow (47%)
- Blue (100%)



- Cyan (100%)
- Magenta (12%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (12%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 82, 44.058, 218.284 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 82, 44.058, 218.284 by changing the saturation by 10% instead.



 82, 44.058,  
218.284

 82, 44.058,  
218.284

 100, 44.058,  
218.284

 72, 44.058,  
218.284

 62, 44.058,  
218.284

 52, 44.058,  
218.284

 42, 44.058,  
218.284

 32, 44.058,  
218.284

 22, 44.058,  
218.284

 12, 44.058,

218.284

■ 2, 44.058, 218.284

■ 0, 44.058, 218.284

■ 82, 44.058,  
218.284

■ 82, 44.058,  
218.284

■ 82, 43.889,  
218.379

■ 83, 43.542,  
216.233

■ 84, 42.413,  
214.469

■ 85, 40.290,  
213.095

■ 87, 37.115,  
212.065

■ 89, 32.911,

211.327

■ 90, 27.753,  
210.834

■ 92, 21.754,  
210.542

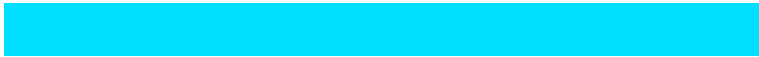
■ 95, 15.043,  
210.419

■ 97, 7.751, 210.451

# Harmonies

# Complementary

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



82, 44.058, 218.284



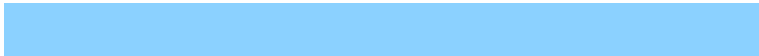
54, 102.242, 41.193

# Rectangle

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



82, 44.058, 218.284



82, 44.058, 268.284



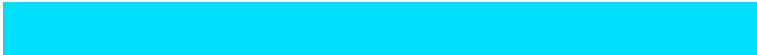
82, 44.058, 38.284



82, 44.058, 88.284

# Sweetspot

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



82, 43.889, 218.379



93, 21.837, 210.543



87, 116.809, 136.902



49, 14.638, 210.643



0, 0.000, 0.000



53, 0.007, 296.813



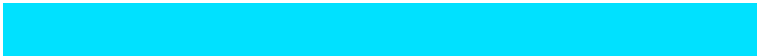


# Same Dimension

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



82, 43.889, 218.379



82, 44.046, 218.385



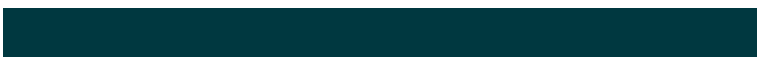
47, 91.561, 294.338



52, 4.429, 210.457



63, 35.517, 217.957



21, 16.488, 215.035



# Inverse Universe

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



58, 104.780, 333.691



59, 105.155, 333.692



73, 82.404, 70.243



50, 8.351, 328.364



44, 84.833, 333.587

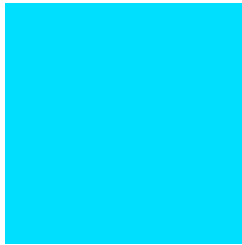


12, 39.463, 332.868



# Previews

## White Background



This preview shows how the CIE LCh color 82, 44.058, 218.284 looks on a white background.

## Color Contrast Check

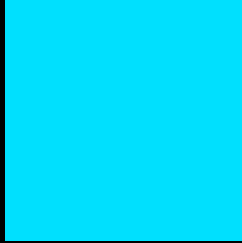
Large Text (above 18pt) WCAG AA × Fail

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 82, 44.058, 218.284 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

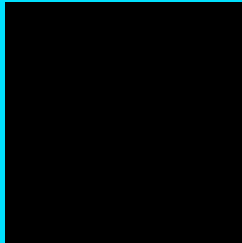
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 82, 44.058, 218.284**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 82, 44.058, 218.284.

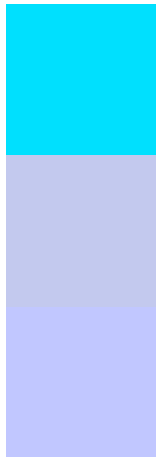


This preview shows how white text looks on a background with the CIELCh color 82, 44.058, 218.284.

# 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

82, 43.916, 218.377

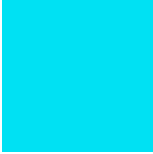
### Protanopia

82, 19.702, 286.040

### Deuteranopia

82, 29.761, 289.040



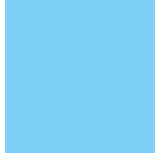


**Tritanopia**  
82, 43.975, 209.362

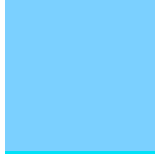
# Trichromacy



**Original Color**  
82, 43.916, 218.377



**Protanomaly**  
80, 30.105, 236.701



**Deuteranomaly**  
80, 33.599, 246.953

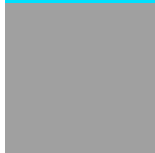


**Tritanomaly**  
82, 43.896, 212.336

# Monochromacy



**Original Color**  
82, 43.916, 218.377



**Achromatopsia**  
66, 0.008, 296.813



**Achromatomaly**  
70, 25.539, 211.328

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 82, 44.058, 218.284 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(0, 224, 254)` looks like.

```
.text, #text, p{  
    color:rgb(0, 224, 254)  
}
```

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(0, 224, 254) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 224, 254) }
```

## Border

The CSS property to change the border of an element to CIELCh 82, 44.058, 218.284 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(0, 224, 254) }
```

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

```
.border{ border-color:rgb(0, 224, 254) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 224, 254)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 224, 254); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 224, 254);  
box-shadow:4px 4px 4px 4px rgb(0, 224,  
254) }
```

# Background

The CSS property to change the background color of an element to CIELCh 82, 44.058, 218.284 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 224, 254) }
```

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

```
.background{ background-color: rgb(0, 224,  
254) }
```

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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