

# Converting Colors

CIELCh(76, 39.456, 219.495)

Have a look what the booklet for  
CIELCh(76, 39.456, 219.495)  
contains.

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# Color

**CIELCh(76, 39.521, 219.712)**

# Conversions

## Conversions Part 1

Format	Color
Hex	28CDE9
RGB	40, 205, 233
RGB Percent	16%, 80%, 91%
CMY	0.8447, 0.1968, 0.0870
CMYK	0.83, 0.12, 0.00, 0.09
HSL	189°, 81%, 53%
HSV	189°, 83%, 91%
XYZ	37.3254, 49.8872, 84.6088
YIQ	158.8570, -107.3280, -26.2720

# Conversions

## Conversions Part 2

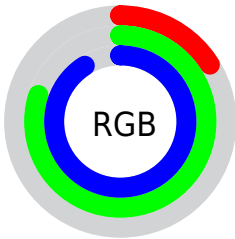
Format	Color
R <sub>Y</sub> B	40, 129, 233
Decimal	2674153
CIE Lab	76.00, -30.40, -25.25
CIE LCh	76, 39.521, 219.712
Yxy	49.8872, 0.2172, 0.2903
Android (android.graphics.Color)	4280864233 (0xFF28CDE9)
YUV	158.8570, 36.5525, -104.2376
Hunter-Lab	70.6309, -29.2746, -21.5819

# Details

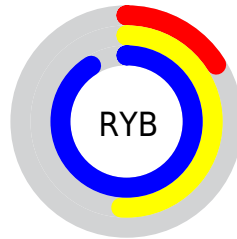
The CIELCh color **76, 39.521, 219.712** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **54, 80.975, 40.066**, and the grayscale version is **65, 0.008, 296.813**.

A 20% lighter version of the original color is **93, 38.289, 197.073**, and **57, 33.132, 225.108** is the 20% darker color. If you saturate the color by 10%, you get **75, 40.427, 222.097**, and if you desaturate by 10%, it is **77, 37.758, 217.812**.

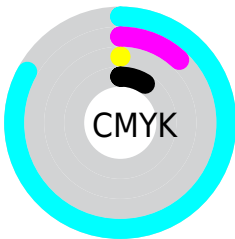
# Distribution



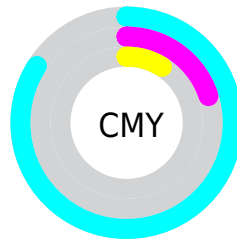
- Red (16%)
- Green (80%)
- Blue (91%)



- Red (16%)
- Yellow (51%)
- Blue (91%)



- Cyan (83%)
- Magenta (12%)
- Yellow (0%)
- Black (9%)




- Cyan (84%)
- Magenta (20%)
- Yellow (9%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 76, 39.521, 219.712 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 76, 39.521, 219.712 by changing the saturation by 10% instead.




 76, 39.521,  
219.712

 76, 39.521,  
219.712


 100, 39.521,  
219.712


 66, 39.521,  
219.712


 96, 39.521,  
219.712

 56, 39.521,  
219.712

 46, 39.521,  
219.712

 36, 39.521,  
219.712

 26, 39.521,  
219.712

 16, 39.521,  
219.712

 6, 39.521, 219.712

0, 39.521, 219.712

76, 39.521,  
219.712

76, 39.521,  
219.712

75, 40.427,  
222.097

77, 37.758,  
217.812

74, 40.709,  
224.021

79, 35.062,  
216.345

81, 31.430,  
215.246

82, 26.918,  
214.455

84, 21.621,  
213.914

87, 15.651,  
213.579

■ 89, 9.126, 213.421

■ 92, 2.157, 213.578

■ 94, 5.154, 33.204

# Harmonies

# Complementary

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



76, 39.521, 219.712



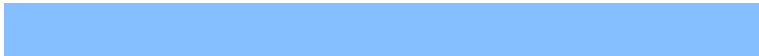
54, 80.975, 40.066

# Rectangle

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



76, 39.521, 219.712



76, 39.521, 269.712



76, 39.521, 39.712



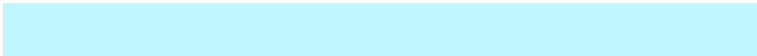
76, 39.521, 89.712

# Sweetspot

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



76, 39.520, 219.711



93, 18.185, 213.635



81, 99.562, 139.335



49, 12.245, 213.746



0, 0.000, 0.000



53, 0.007, 296.813



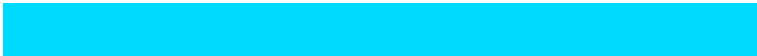


# Same Dimension

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



76, 39.520, 219.711



80, 43.605, 224.178



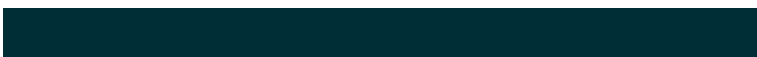
49, 71.689, 288.756



48, 4.054, 213.410



59, 33.741, 223.515



17, 14.562, 219.027



# Inverse Universe

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



55, 92.845, 333.890



58, 102.956, 335.141



72, 70.042, 76.176



46, 7.653, 329.217



42, 79.801, 334.973

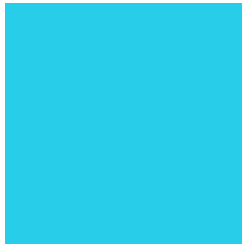


9, 34.737, 333.851



# Previews

## White Background



This preview shows how the CIE LCh color 76, 39.521, 219.712 looks on a white background.

## Color Contrast Check

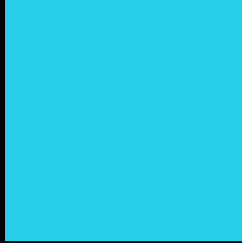
Large Text (above 18pt) WCAG AA × Fail

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 76, 39.521, 219.712 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 76, 39.521, 219.712

## Background



This preview shows how black text looks on a background with the CIELCh color 76, 39.521, 219.712.

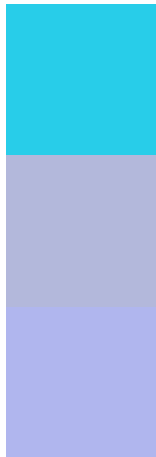


This preview shows how white text looks on a background with the CIELCh color 76, 39.521, 219.712.

# 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

76, 39.521, 219.712

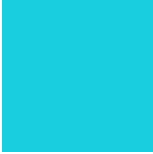
### Protanopia

75, 18.928, 286.785

### Deuteranopia

75, 30.246, 289.294



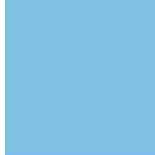


**Tritanopia**  
76, 40.343, 210.021

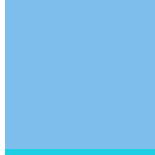
# Trichromacy



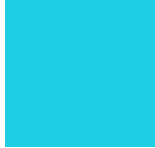
**Original Color**  
76, 39.521, 219.712



**Protanomaly**  
75, 25.467, 241.468



**Deuteranomaly**  
74, 30.375, 254.121



**Tritanomaly**  
76, 40.046, 213.434

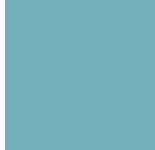
# Monochromacy



**Original Color**  
76, 39.521, 219.712



**Achromatopsia**  
65, 0.008, 296.813



**Achromatomaly**  
68, 20.216, 213.847

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 76, 39.521, 219.712 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, 205, 233)` looks like.

```
.text, #text, p{  
    color:rgb(40, 205, 233)  
}
```

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, 205, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 205, 233) }
```

## Border

The CSS property to change the border of an element to CIELCh 76, 39.521, 219.712 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, 205, 233) }
```

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

```
.border{ border-color:rgb(40, 205, 233) }
```

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

Here you see how a box with a 4 pixel rgb(40, 205, 233) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 205, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 205, 233);  
box-shadow:4px 4px 4px 4px rgb(40, 205,  
233) }
```

# Background

The CSS property to change the background color of an element to CIELCh 76, 39.521, 219.712 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 205, 233) }
```

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

```
.background{ background-color: rgb(40, 205,  
233) }
```

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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