

# Converting Colors

CIELCh(77, 42.036, 237.676)

Have a look what the booklet for  
CIELCh(77, 42.036, 237.676)  
contains.

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# **Color**

**CIELCh(77, 42.042, 237.714)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33CDFF
RGB	51, 205, 255
RGB Percent	20%, 80%, 100%
CMY	0.8006, 0.1964, 0.0004
CMYK	0.80, 0.20, 0.00, 0.00
HSL	195°, 100%, 60%
HSV	195°, 80%, 100%
XYZ	41.2003, 51.5317, 102.3024
YIQ	164.6540, -107.8340, -17.0980

# Conversions

## Conversions Part 2

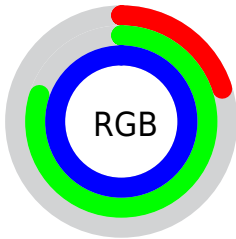
Format	Color
R <sub>Y</sub> B	51, 139, 255
Decimal	3395071
CIE Lab	77.00, -22.46, -35.54
CIE LCh	77, 42.042, 237.714
Yxy	51.5317, 0.2112, 0.2642
Android (android.graphics.Color)	4281585151 (0xFF33CDFF)
YUV	164.6540, 44.5406, -99.6746
Hunter-Lab	71.7856, -23.1773, -34.2448

# Details

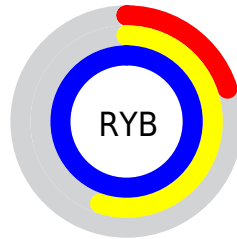
The CIELCh color **77, 42.042, 237.714** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **62, 79.710, 45.064**, and the grayscale version is **67, 0.008, 296.813**.

A 20% lighter version of the original color is **93, 36.655, 197.170**, and **58, 37.365, 243.843** is the 20% darker color. If you saturate the color by 10%, you get **75, 44.105, 241.674**, and if you desaturate by 10%, it is **79, 39.291, 234.456**.

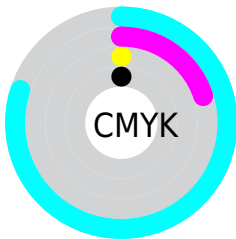
# Distribution



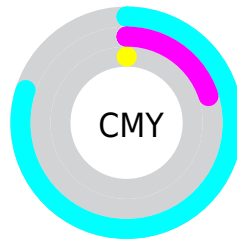
- Red (20%)
- Green (80%)
- Blue (100%)



- Red (20%)
- Yellow (55%)
- Blue (100%)



- Cyan (80%)
- Magenta (20%)
- Yellow (0%)
- Black (0%)



- Cyan (80%)
- Magenta (20%)
- Yellow (0%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 77, 42.042, 237.714 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 77, 42.042, 237.714 by changing the saturation by 10% instead.




 77, 42.042,  
237.714


 77, 42.042,  
237.714


 100, 42.042,  
237.714


 67, 42.042,  
237.714


 97, 42.042,  
237.714

 57, 42.042,  
237.714

 47, 42.042,  
237.714

 37, 42.042,  
237.714

 27, 42.042,  
237.714

 17, 42.042,  
237.714

 7, 42.042, 237.714

0, 42.042, 237.714

77, 42.042,  
237.714

77, 42.042,  
237.714

75, 44.105,  
241.674

79, 39.291,  
234.456

73, 45.731,  
246.214

82, 35.750,  
231.845

84, 31.399,  
229.791

87, 26.285,  
228.198

90, 20.490,  
226.980

93, 14.117,  
226.066

■ 97, 7.269, 225.412

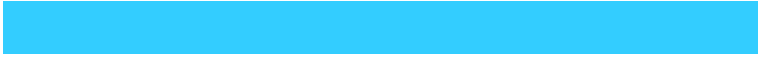
100, 0.045,  
239.010

100, 0.036,  
108.043

# Harmonies

# Complementary

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



77, 42.042, 237.714



62, 79.710, 45.064

# Rectangle

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



77, 42.042, 237.714



77, 42.042, 287.714



77, 42.042, 57.714



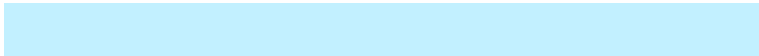
77, 42.042, 107.714

# Sweetspot

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



77, 42.041, 237.714



92, 16.699, 226.394



88, 98.116, 142.432



48, 11.340, 226.727



0, 0.000, 0.000



53, 0.007, 296.813



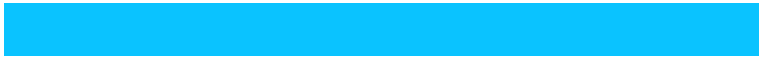


# Same Dimension

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



77, 42.041, 237.714



74, 45.103, 244.356



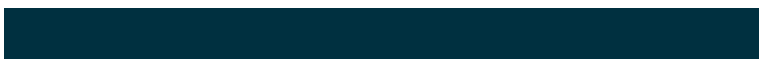
50, 86.745, 294.089



51, 4.117, 225.384



56, 36.674, 245.328



18, 16.437, 239.053



# Inverse Universe

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



60, 91.741, 338.655



57, 95.433, 340.747



83, 75.893, 85.250



50, 7.634, 332.743



43, 77.120, 341.063

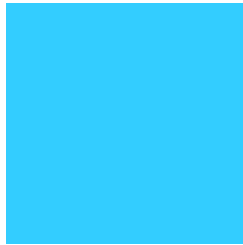


11, 36.238, 339.151



# Previews

## White Background



This preview shows how the CIE LCh color 77, 42.042, 237.714 looks on a white background.

## Color Contrast Check

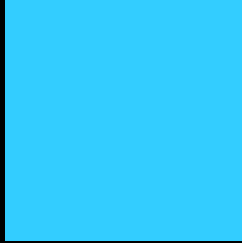
Large Text (above 18pt) WCAG AA × Fail

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 77, 42.042, 237.714 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

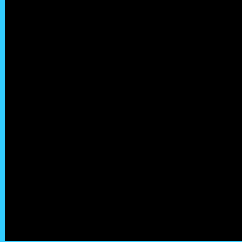
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

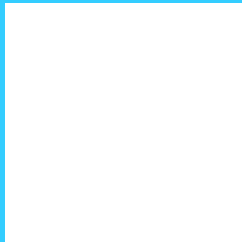
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 77, 42.042, 237.714**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 77, 42.042, 237.714.



This preview shows how white text looks on a background with the CIELCh color 77, 42.042, 237.714.

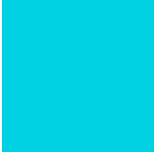
# Color Blindness Simulation

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







**Tritanopia**  
77, 41.748, 209.465

# Trichromacy



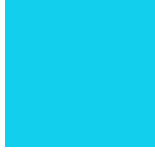
**Original Color**  
77, 42.042, 237.714



**Protanomaly**  
76, 33.030, 259.200



**Deuteranomaly**  
76, 37.427, 262.708



**Tritanomaly**  
77, 41.146, 219.466

# Monochromacy



**Original Color**  
77, 42.042, 237.714



**Achromatopsia**  
68, 0.008, 296.813



**Achromatomaly**  
70, 20.490, 227.121

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 77, 42.042, 237.714 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(51, 205, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 205, 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(51, 205, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 205, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 77, 42.042, 237.714 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(51, 205, 255) }
```

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

```
.border{ border-color:rgb(51, 205, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 205, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 205, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 205, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 205,  
255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 77, 42.042, 237.714 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 205, 255) }
```

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

```
.background{ background-color: rgb(51, 205,  
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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