

Converting Colors

CIELCh(77, 42.000, 237.342)

Have a look what the booklet for
CIELCh(77, 42.000, 237.342)
contains.

CIELCh(77, 42.109, 237.633)	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(77, 42.109, 237.633)

Conversions

Conversions Part 1

Format	Color
Hex	32CDFF
RGB	50, 205, 255
RGB Percent	20%, 80%, 100%
CMY	0.8042, 0.1963, 0.0002
CMYK	0.80, 0.20, 0.00, 0.00
HSL	195°, 100%, 60%
HSV	195°, 80%, 100%
XYZ	41.1722, 51.5317, 102.3412
YIQ	164.3550, -108.4300, -17.3100

Conversions

Conversions Part 2

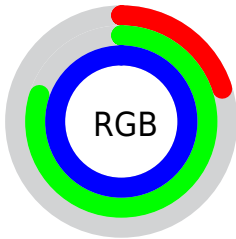
Format	Color
RYB	50, 138, 255
Decimal	3329535
CIELab	77.00, -22.54, -35.57
CIELCh	77, 42.109, 237.633
Yxy	51.5317, 0.2111, 0.2642
Android (android.graphics.Color)	4281519615 (0xFF32CDFF)
YUV	164.3550, 44.6880, -100.2893
Hunter-Lab	71.7856, -23.2472, -34.2769

Details

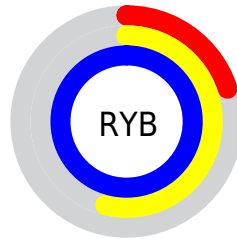
The CIELCh color **77, 42.109, 237.633** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **62, 80.177, 45.009**, and the grayscale version is **67, 0.008, 296.813**.

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, 44.136, 241.604**, and if you desaturate by 10%, it is **79, 39.396, 234.364**.

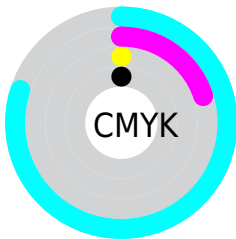
Distribution



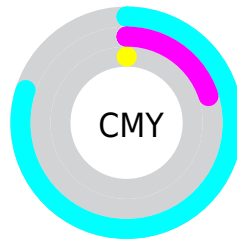
- Red (20%)
- Green (80%)
- Blue (100%)



- Red (20%)
- Yellow (54%)
- 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, 42.109, 237.633 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, 42.109, 237.633 by changing the saturation by 10% instead.


 77, 42.109,
237.633

 77, 42.109,
237.633


 100, 42.109,
237.633


 67, 42.109,
237.633


 97, 42.109,
237.633

 57, 42.109,
237.633

 47, 42.109,
237.633

 37, 42.109,
237.633

 27, 42.109,
237.633

 17, 42.109,
237.633

 7, 42.109, 237.633

■ 0, 42.109, 237.633

■ 77, 42.109,
237.633

■ 77, 42.109,
237.633

■ 75, 44.136,
241.604

■ 79, 39.396,
234.364

■ 73, 45.678,
245.973

■ 82, 35.893,
231.744

■ 84, 31.576,
229.682

■ 87, 26.490,
228.084

■ 90, 20.719,
226.862

■ 93, 14.363,
225.944

■ 96, 7.528, 225.287

100, 0.312,
226.727

100, 0.014,
104.567

Harmonies

Complementary

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



77, 42.109, 237.633



62, 80.177, 45.009

Rectangle

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



77, 42.109, 237.633



77, 42.109, 287.633



77, 42.109, 57.633



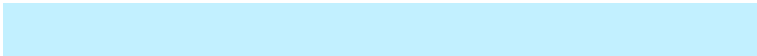
77, 42.109, 107.633

Sweetspot

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



77, 42.108, 237.633



92, 16.703, 226.242



88, 98.435, 142.368



48, 11.343, 226.572



0, 0.000, 0.000



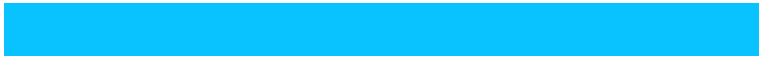
53, 0.007, 296.813

Same Dimension

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



77, 42.108, 237.633



74, 45.206, 244.587



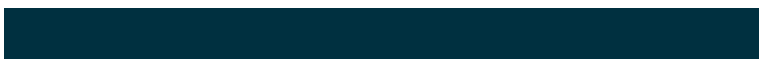
49, 87.193, 294.211



51, 4.118, 225.241



56, 36.630, 245.089



18, 16.426, 238.836

Inverse Universe

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



60, 91.991, 338.635



57, 95.515, 340.822



83, 76.134, 85.190



50, 7.640, 332.700



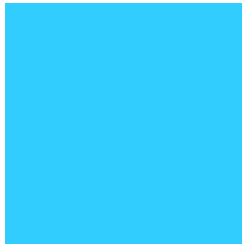
43, 77.182, 340.987



11, 36.265, 339.087

Previews

White Background



This preview shows how the CIELCh color 77, 42.109, 237.633 looks on a white background.

Color Contrast Check

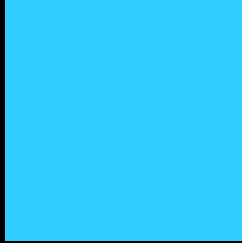
Large Text (above 18pt) WCAG AA × Fail

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, 42.109, 237.633 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

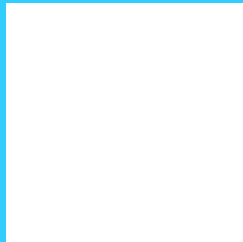
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 77, 42.109, 237.633

Background



This preview shows how black text looks on a background with the CIELCh color 77, 42.109, 237.633.



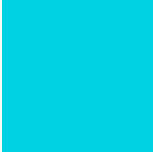
This preview shows how white text looks on a background with the CIELCh color 77, 42.109, 237.633.

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



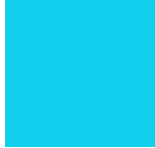
Original Color
77, 42.109, 237.633



Protanomaly
76, 33.152, 258.832



Deuteranomaly
76, 37.427, 262.708



Tritanomaly
77, 41.146, 219.466

Monochromacy



Original Color
77, 42.109, 237.633



Achromatopsia
67, 0.008, 296.813



Achromatomaly
70, 20.252, 227.540

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 77, 42.109, 237.633 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(50, 205, 255)` looks like.

```
.text, #text, p{  
    color:rgb(50, 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(50, 205, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 205, 255) }
```

Border

The CSS property to change the border of an element to CIELCh 77, 42.109, 237.633 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(50, 205, 255) }
```

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

```
.border{ border-color:rgb(50, 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(50, 205, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 205, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 205, 255);  
box-shadow:4px 4px 4px 4px rgb(50, 205,  
255) }
```

Background

The CSS property to change the background color of an element to CIELCh 77, 42.109, 237.633 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 205, 255) }
```

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

```
.background{ background-color: rgb(50, 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](#).

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