

# Converting Colors

CIELCh(91, 103.331, 176.836)

Have a look what the booklet for  
CIELCh(91, 103.331, 176.836)  
contains.

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**Color**

**CIELCh(90, 59.114, 175.100)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFD7
RGB	0, 255, 215
RGB Percent	0%, 100%, 84%
CMY	1.0000, 0.0006, 0.1575
CMYK	1.00, 0.00, 0.16, 0.00
HSL	171°, 100%, 50%
HSV	171°, 100%, 100%
XYZ	47.9372, 76.3034, 76.3837
YIQ	174.1950, -139.1400, -66.5000

# Conversions

## Conversions Part 2

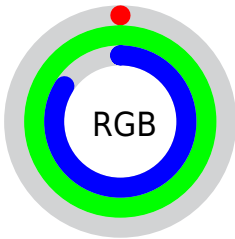
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 138, 255
Decimal	65495
CIELab	90.00, -58.90, 5.05
CIELCh	90, 59.114, 175.100
Yxy	76.3034, 0.2389, 0.3803
Android (android.graphics.Color)	4278255575 (0xFF00FFD7)
YUV	174.1950, 20.1169, -152.7690
Hunter-Lab	87.3518, -54.9077, 9.3009

# Details

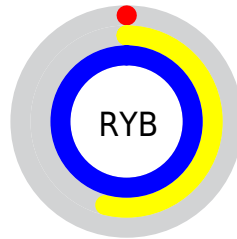
The CIELCh color **90, 59.114, 175.100** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **53, 96.634, 33.562**, and the grayscale version is **71, 0.009, 296.813**.

A 20% lighter version of the original color is **93, 38.875, 197.039**, and **71, 50.461, 172.011** is the 20% darker color. If you saturate the color by 10%, you get **90, 59.091, 175.092**, and if you desaturate by 10%, it is **90, 57.242, 176.717**.

# Distribution



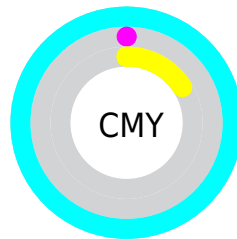
- Red (0%)
- Green (100%)
- Blue (84%)



- Red (0%)
- Yellow (54%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (16%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (16%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 59.114, 175.100 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 90, 59.114, 175.100 by changing the saturation by 10% instead.





 90, 59.114,  
175.100


 90, 59.114,  
175.100


 100, 59.114,  
175.100


 80, 59.114,  
175.100

 70, 59.114,  
175.100

 60, 59.114,  
175.100


 50, 59.114,  
175.100

 40, 59.114,  
175.100


 30, 59.114,  
175.100


 20, 59.114,


175.100


 10, 59.114,  
175.100


 0, 59.114, 175.100


 90, 59.114,  
175.100


 90, 59.114,  
175.100

 90, 59.091,  
175.092

 90, 57.242,  
176.717

 91, 54.557,  
178.211

 91, 50.836,  
179.560

 92, 46.039,  
180.785

■ 93, 40.209,  
181.909

■ 94, 33.447,  
182.953

■ 95, 25.890,  
183.936

■ 96, 17.695,  
184.875

■ 98, 9.015, 185.799

# Harmonies

# Complementary

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



90, 59.114, 175.100



53, 96.634, 33.562

# Rectangle

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



90, 59.114, 175.100



90, 59.114, 225.100



90, 59.114, 355.100



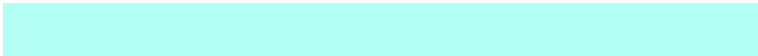
90, 59.114, 45.100

# Sweetspot

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



90, 59.091, 175.092



95, 25.904, 183.936



88, 118.351, 135.171



50, 17.454, 183.527



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



90, 59.091, 175.092



90, 59.120, 175.092



66, 52.412, 263.185



52, 5.132, 185.846



69, 47.457, 175.397



23, 21.333, 177.567



# Inverse Universe

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



53, 96.634, 33.562



53, 96.683, 33.564



60, 93.479, 48.431



50, 5.356, 7.390



40, 77.122, 32.628

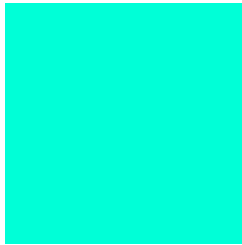


10, 32.239, 20.724



# Previews

## White Background



This preview shows how the CIE LCh color 90, 59.114, 175.100 looks on a white background.

## Color Contrast Check

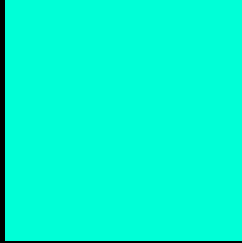
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 90, 59.114, 175.100 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

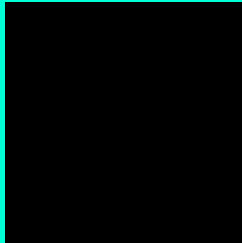
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 90, 59.114, 175.100

## Background



This preview shows how black text looks on a background with the CIELCh color 90, 59.114, 175.100.

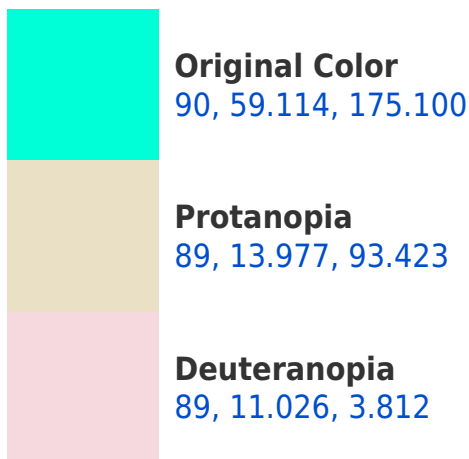


This preview shows how white text looks on a background with the CIELCh color 90, 59.114, 175.100.


# 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





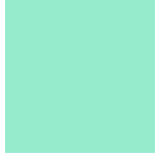


**Tritanopia**  
90, 29.842, 211.894

# Trichromacy



**Original Color**  
90, 59.114, 175.100



**Protanomaly**  
87, 33.467, 168.154



**Deuteranomaly**  
87, 25.281, 184.453

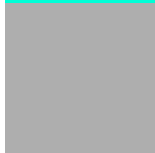


**Tritanomaly**  
89, 42.586, 192.472

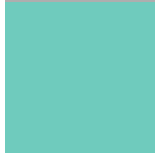
# Monochromacy



**Original Color**  
90, 59.114, 175.100



**Achromatopsia**  
71, 0.009, 296.813



**Achromatomaly**  
76, 30.867, 182.884

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 59.114, 175.100 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, 255, 215)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 215)  
}
```

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, 255, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 215) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 59.114, 175.100 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, 255, 215) }
```

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

```
.border{ border-color:rgb(0, 255, 215) }
```

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

Here you see how a box with a 4 pixel rgb(0, 255, 215) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 215);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
215) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 59.114, 175.100 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 215) }
```

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

```
.background{ background-color: rgb(0, 255,  
215) }
```

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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