

# Converting Colors

CIELCh(90, 110.835, 129.612)

Have a look what the booklet for  
CIELCh(90, 110.835, 129.612)  
contains.

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**Color**

**CIELCh(90, 110.293, 129.519)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78FF0A
RGB	120, 255, 10
RGB Percent	47%, 100%, 4%
CMY	0.5282, 0.0000, 0.9625
CMYK	0.53, 0.00, 0.96, 0.00
HSL	93°, 100%, 52%
HSV	93°, 96%, 100%
XYZ	43.9740, 76.3034, 12.6838
YIQ	186.7050, -1.8150, -104.8150

# Conversions

## Conversions Part 2

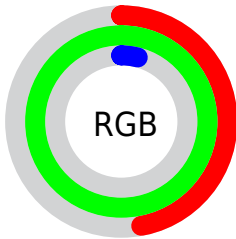
Format	Color
R <sub>YB</sub>	10, 255, 145
Decimal	7929610
CIE Lab	90.00, -70.18, 85.08
CIE LCh	90, 110.293, 129.519
Yxy	76.3034, 0.3307, 0.5739
Android (android.graphics.Color)	4286119690 (0xFF78FF0A)
YUV	186.7050, -87.1156, -58.5003
Hunter-Lab	87.3518, -63.0065, 52.5371

# Details

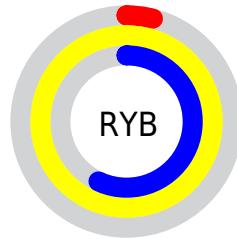
The CIELCh color **90, 110.293, 129.519** is a dark color, and the websafe version is hex **66FF00**. The color can be described as dark saturated chartreuse. A complement of this color would be **43, 122.251, 313.119**, and the grayscale version is **76, 0.009, 296.813**.

A 20% lighter version of the original color is **93, 81.435, 124.317**, and **70, 96.524, 134.404** is the 20% darker color. If you saturate the color by 10%, you get **89, 111.149, 129.880**, and if you desaturate by 10%, it is **90, 105.009, 128.489**.

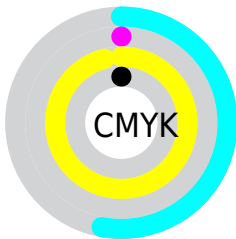
# Distribution



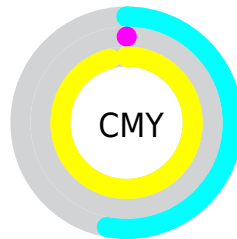
- Red (47%)
- Green (100%)
- Blue (4%)



- Red (4%)
- Yellow (100%)
- Blue (57%)



- Cyan (53%)
- Magenta (0%)
- Yellow (96%)
- Black (0%)




- Cyan (53%)
- Magenta (0%)
- Yellow (96%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 110.293, 129.519 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, 110.293, 129.519 by changing the saturation by 10% instead.





 90, 110.293,  
129.519


 90, 110.293,  
129.519


 100, 110.293,  
129.519


 80, 110.293,  
129.519


 70, 110.293,  
129.519

 60, 110.293,  
129.519

 50, 110.293,  
129.519

 40, 110.293,  
129.519

 30, 110.293,  
129.519

 20, 110.293,

129.519

■ 10, 110.293,  
129.519

■ 0, 110.293,  
129.519

■ 90, 110.293,  
129.519

■ 90, 110.293,  
129.519

■ 89, 111.149,  
129.880

■ 90, 105.009,  
128.489

■ 91, 97.528,  
128.025

■ 92, 87.741,  
127.974

■ 93, 76.252,  
128.203

■ 94, 63.628,  
128.594

■ 95, 50.298,  
129.062

■ 96, 36.568,  
129.555

■ 97, 22.649,  
130.040

■ 99, 8.689, 130.506

# Harmonies

# Complementary

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



90, 110.293, 129.519



43, 122.251, 313.119

# Rectangle

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



90, 110.293, 129.519



90, 110.293, 179.519



90, 110.293, 309.519



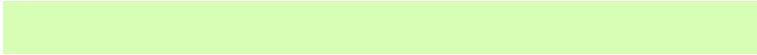
90, 110.293, 359.519

# Sweetspot

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



90, 109.823, 129.452



96, 40.370, 129.419



70, 82.856, 63.730



50, 27.654, 129.209



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, 109.823, 129.452



89, 111.149, 129.880



88, 118.408, 136.325



52, 7.913, 130.355



69, 89.264, 129.604



23, 39.665, 128.113



# Inverse Universe

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



43, 122.251, 313.119



42, 123.718, 312.842



60, 112.014, 329.564



49, 8.013, 311.156



31, 99.479, 313.037

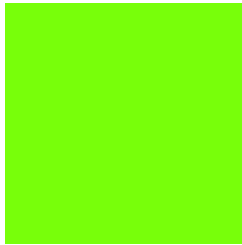


7, 44.822, 314.231



# Previews

## White Background



This preview shows how the CIE LCh color 90, 110.293, 129.519 looks on a white background.

## Color Contrast Check

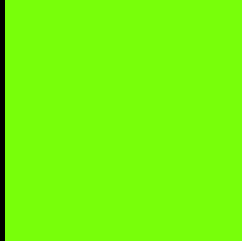
Large Text (above 18pt) WCAG AA × Fail

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, 110.293, 129.519 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

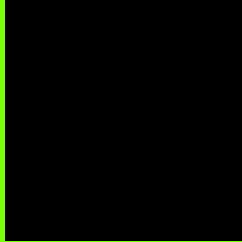
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

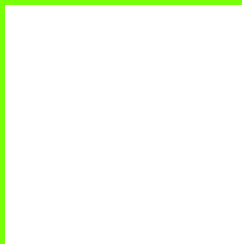
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 90, 110.293, 129.519**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 90, 110.293, 129.519.



This preview shows how white text looks on a background with the CIELCh color 90, 110.293, 129.519.





# 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


90, 109.837, 129.497

### Protanopia

89, 88.766, 94.989

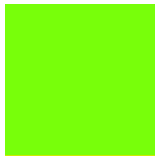
### Deuteranopia

89, 31.378, 79.694



**Tritanopia**  
89, 25.392, 219.826

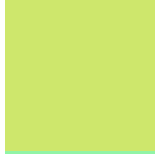
# Trichromacy



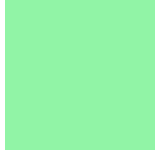
**Original Color**  
90, 109.837, 129.497



**Protanomaly**  
88, 92.000, 111.000

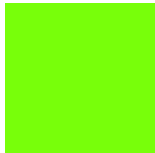


**Deuteranomaly**  
88, 61.933, 114.624

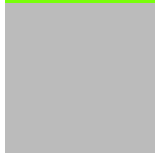


**Tritanomaly**  
89, 53.474, 147.531

# Monochromacy



**Original Color**  
90, 109.837, 129.497



**Achromatopsia**  
76, 0.009, 296.813



**Achromatomaly**  
80, 50.430, 128.638

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 110.293, 129.519 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(120, 255, 10)` looks like.

```
.text, #text, p{  
    color:rgb(120, 255, 10)  
}
```

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(120, 255, 10) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 255, 10) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 110.293, 129.519 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(120, 255, 10) }
```

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

```
.border{ border-color:rgb(120, 255, 10) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 255, 10)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 255, 10); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 255, 10);  
box-shadow:4px 4px 4px 4px rgb(120, 255,  
10) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 110.293, 129.519 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 255, 10) }
```

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

```
.background{ background-color: rgb(120,  
255, 10) }
```

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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