

# Converting Colors

CIELCh(90, 89.095, 105.014)

Have a look what the booklet for  
CIELCh(90, 89.095, 105.014)  
contains.

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**Color**

**CIELCh(90, 89.229, 105.201)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4EC17
RGB	228, 236, 23
RGB Percent	89%, 93%, 9%
CMY	0.1073, 0.0758, 0.9086
CMYK	0.03, 0.00, 0.90, 0.08
HSL	62°, 85%, 51%
HSV	62°, 90%, 92%
XYZ	61.9436, 76.3034, 12.2884
YIQ	209.3260, 63.6050, -67.9390

# Conversions

## Conversions Part 2

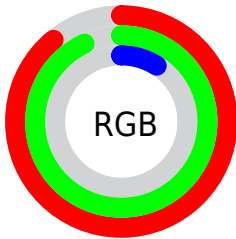
Format	Color
R <sub>Y</sub> B	23, 236, 31
Decimal	15002647
CIE Lab	90.00, -23.40, 86.11
CIE LCh	90, 89.229, 105.201
Yxy	76.3034, 0.4115, 0.5069
Android (android.graphics.Color)	4293192727 (0xFFE4EC17)
YUV	209.3260, -91.8587, 16.3771
Hunter-Lab	87.3518, -26.2864, 52.8055

# Details

The CIELCh color **90, 89.229, 105.201** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **32, 120.548, 305.681**, and the grayscale version is **84, 0.010, 296.813**.

A 20% lighter version of the original color is **97, 74.840, 104.461**, and **70, 74.862, 106.946** is the 20% darker color. If you saturate the color by 10%, you get **90, 91.412, 105.225**, and if you desaturate by 10%, it is **90, 84.702, 105.400**.

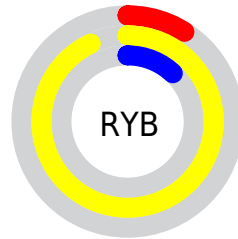
# Distribution



Red (89%)

Green (93%)

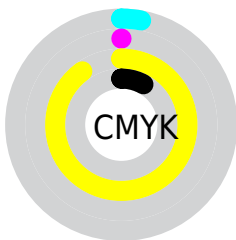
Blue (9%)



Red (9%)

Yellow (93%)

Blue (12%)

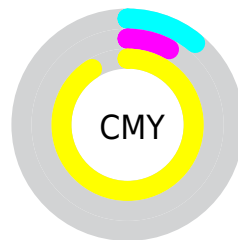


Cyan (3%)

Magenta (0%)

Yellow (90%)

Black (8%)



Cyan (11%)

Magenta (8%)


Yellow (91%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 89.229, 105.201 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, 89.229, 105.201 by changing the saturation by 10% instead.





 90, 89.229,  
105.201


 90, 89.229,  
105.201

 100, 89.229,  
105.201


 80, 89.229,  
105.201

 70, 89.229,  
105.201

 60, 89.229,  
105.201


 50, 89.229,  
105.201

 40, 89.229,  
105.201


 30, 89.229,  
105.201


 20, 89.229,


105.201

 10, 89.229,  
105.201


 0, 89.229, 105.201

 90, 89.229,  
105.201


 90, 89.229,  
105.201

 90, 91.412,  
105.225

 90, 84.702,  
105.400

 90, 77.758,  
105.829

 91, 68.916,  
106.443

 91, 58.748,  
107.192

■ 91, 47.722,  
108.029

■ 92, 36.166,  
108.918

■ 92, 24.297,  
109.830

■ 93, 12.255,  
110.746

■ 93, 0.130, 111.222

# Harmonies

# Complementary

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



90, 89.229, 105.201



32, 120.548, 305.681

# Rectangle

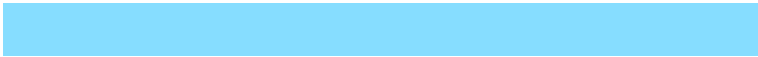
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



90, 89.229, 105.201



90, 89.229, 155.201



90, 89.229, 285.201



90, 89.229, 335.201

# Sweetspot

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



90, 89.229, 105.203



98, 34.635, 109.190



50, 92.116, 38.183



52, 23.282, 108.879



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, 89.229, 105.203



96, 97.028, 105.235



84, 100.323, 128.287



49, 6.857, 110.805



71, 75.025, 105.186



21, 30.659, 105.570



# Inverse Universe

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



32, 120.548, 305.681



32, 133.652, 306.362



41, 112.425, 313.146



45, 7.011, 292.588



22, 103.281, 306.401

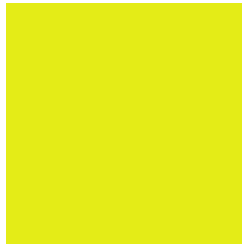


2, 35.812, 298.647



# Previews

## White Background



This preview shows how the CIELCh color 90, 89.229, 105.201 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 90, 89.229, 105.201 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, 89.229, 105.201

## Background



This preview shows how black text looks on a background with the CIELCh color 90, 89.229, 105.201.



This preview shows how white text looks on a background with the CIELCh color 90, 89.229, 105.201.

# 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, 89.365, 105.188

### Protanopia

90, 87.959, 95.077

### Deuteranopia

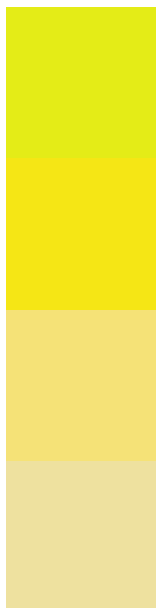
90, 28.380, 79.800





**Tritanopia**  
90, 12.590, 335.795

# Trichromacy



**Original Color**  
90, 89.365, 105.188

**Protanomaly**  
90, 87.957, 98.796

**Deuteranomaly**  
89, 54.540, 97.338

**Tritanomaly**  
89, 34.333, 98.661

# Monochromacy



**Original Color**  
90, 89.365, 105.188

**Achromatopsia**  
84, 0.010, 296.813

**Achromatomaly**  
86, 40.117, 108.467

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 89.229, 105.201 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(228, 236, 23)` looks like.

```
.text, #text, p{  
    color:rgb(228, 236, 23)  
}
```

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(228, 236, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 236, 23) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 89.229, 105.201 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(228, 236, 23) }
```

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

```
.border{ border-color:rgb(228, 236, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 236, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 236, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 236, 23);  
box-shadow:4px 4px 4px 4px rgb(228, 236,  
23) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 89.229, 105.201 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 236, 23) }
```

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

```
.background{ background-color: rgb(228,  
236, 23) }
```

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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