

# Converting Colors

CIELCh(87, 83.287, 95.047)

Have a look what the booklet for  
CIELCh(87, 83.287, 95.047) contains.

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# **Color**

**CIELCh(87, 83.168, 94.748)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F6DA20
RGB	246, 218, 32
RGB Percent	96%, 85%, 13%
CMY	0.0343, 0.1442, 0.8730
CMYK	0.00, 0.11, 0.87, 0.03
HSL	52°, 92%, 55%
HSV	52°, 87%, 97%
XYZ	63.4915, 70.0064, 11.5603
YIQ	205.1680, 76.3940, -51.9100

# Conversions

## Conversions Part 2

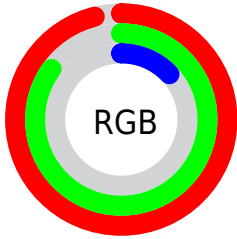
Format	Color
<a href="#">RYB</a>	64, 246, 32
Decimal	16177696
CIELab	87.00, -6.88, 82.88
CIELCh	87, 83.168, 94.748
Yxy	70.0064, 0.4377, 0.4826
Android (android.graphics.Color)	4294367776 (0xFFFF6DA20)
YUV	205.1680, -85.3718, 35.8097
Hunter-Lab	83.6698, -10.9704, 50.3770

# Details

The CIELCh color **87, 83.168, 94.748** is a light color, and the websafe version is hex **FFCC00**. The color can be described as light washed yellow. A complement of this color would be **38, 109.486, 301.914**, and the grayscale version is **83, 0.010, 296.813**.

A 20% lighter version of the original color is **98, 74.053, 104.520**, and **67, 70.365, 94.967** is the 20% darker color. If you saturate the color by 10%, you get **86, 85.722, 93.739**, and if you desaturate by 10%, it is **88, 77.818, 95.770**.

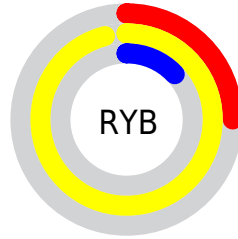
# Distribution



Red (96%)

Green (85%)

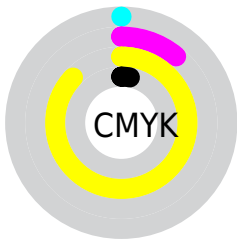
Blue (13%)



Red (25%)

Yellow (96%)

Blue (13%)

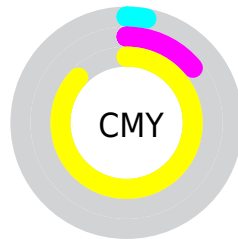


Cyan (0%)

Magenta (11%)

Yellow (87%)

Black (3%)



Cyan (3%)

Magenta (14%)

Yellow (87%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 87, 83.168, 94.748 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 87, 83.168, 94.748 by changing the saturation by 10% instead.



 87, 83.168, 94.748

 87, 83.168, 94.748

 100, 83.168,  
94.748

 77, 83.168, 94.748

 67, 83.168, 94.748

 57, 83.168, 94.748

 47, 83.168, 94.748

 37, 83.168, 94.748

 27, 83.168, 94.748

 17, 83.168, 94.748

 7, 83.168, 94.748

 0, 83.168, 94.748

87, 83.168, 94.748

87, 83.168, 94.748

86, 85.722, 93.739

88, 77.818, 95.770

86, 86.169, 93.419

89, 70.207, 96.823

90, 61.061, 97.913

91, 50.982, 99.031

92, 40.378,  
100.163

93, 29.506,  
101.294

95, 18.519,  
102.412

96, 7.509, 103.499

97, 3.471, 284.626

# Harmonies

# Complementary

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



87, 83.168, 94.748



38, 109.486, 301.914

# Rectangle

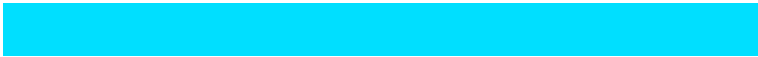
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



87, 83.168, 94.748



87, 83.168, 144.748



87, 83.168, 274.748



87, 83.168, 324.748

# Sweetspot

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



87, 83.167, 94.750



96, 29.401, 101.384



53, 86.184, 28.593



51, 19.918, 100.993



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



87, 83.167, 94.750



89, 88.465, 93.399



89, 96.994, 121.851



51, 6.211, 103.218



67, 69.938, 93.599



21, 29.753, 95.229





# Inverse Universe

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



38, 109.486, 301.914



35, 126.394, 304.695



40, 117.221, 309.537



47, 6.311, 285.349



24, 98.551, 304.342



4, 36.279, 297.458



# Previews

## White Background



This preview shows how the CIELCh color 87, 83.168, 94.748 looks on a white background.

## Color Contrast Check

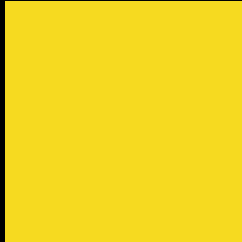
Large Text (above 18pt) WCAG AA × Fail

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 87, 83.168, 94.748 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 87, 83.168, 94.748

## Background



This preview shows how black text looks on a background with the CIELCh color 87, 83.168, 94.748.



This preview shows how white text looks on a background with the CIELCh color 87, 83.168, 94.748.

# 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

87, 83.168, 94.748

### Protanopia

87, 83.168, 94.748

### Deuteranopia

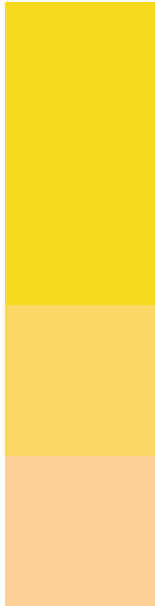
87, 39.985, 80.146



**Tritanopia**  
87, 19.763, 359.371



# Trichromacy



**Original Color**  
87, 83.168, 94.748

**Protanomaly**  
87, 83.168, 94.748

**Deuteranomaly**  
87, 58.648, 89.288

**Tritanomaly**  
87, 35.445, 78.589

# Monochromacy



**Original Color**  
87, 83.168, 94.748

**Achromatopsia**  
82, 0.010, 296.813

**Achromatomaly**  
84, 35.577, 100.502

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 87, 83.168, 94.748 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(246, 218, 32)` looks like.

```
.text, #text, p{  
    color:rgb(246, 218, 32)  
}
```

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(246, 218, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(246, 218, 32) }
```

## Border

The CSS property to change the border of an element to CIELCh 87, 83.168, 94.748 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(246, 218, 32) }
```

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

```
.border{ border-color:rgb(246, 218, 32) }
```

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

Here you see how a box with a 4 pixel `rgb(246, 218, 32)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(246, 218, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(246, 218, 32);  
box-shadow:4px 4px 4px 4px rgb(246, 218,  
32) }
```

# Background

The CSS property to change the background color of an element to CIELCh 87, 83.168, 94.748 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(246, 218, 32) }
```

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

```
.background{ background-color: rgb(246,  
218, 32) }
```

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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