

Converting Colors

CIELCh(86, 90.657, 123.421)

Have a look what the booklet for
CIELCh(86, 90.657, 123.421)
contains.

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Color

CIELCh(86, 90.800, 123.366)

Conversions

Conversions Part 1

Format	Color
Hex	9FED31
RGB	159, 237, 49
RGB Percent	62%, 93%, 19%
CMY	0.3775, 0.0716, 0.8090
CMYK	0.33, 0.00, 0.79, 0.07
HSL	85°, 84%, 56%
HSV	85°, 79%, 93%
XYZ	45.0065, 67.9871, 13.6219
YIQ	192.2460, 13.8600, -75.0040

Conversions

Conversions Part 2

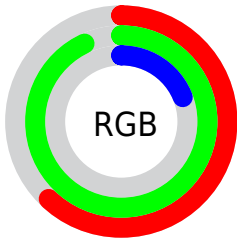
Format	Color
RYB	49, 237, 127
Decimal	10480945
CIELab	86.00, -49.94, 75.83
CIELCh	86, 90.800, 123.366
Yxy	67.9871, 0.3555, 0.5370
Android (android.graphics.Color)	4288671025 (0xFF9FED31)
YUV	192.2460, -70.6203, -29.1567
Hunter-Lab	82.4543, -46.8634, 47.9230

Details

The CIELCh color **86, 90.800, 123.366** is a dark color, and the websafe version is hex **99FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **42, 105.974, 310.499**, and the grayscale version is **78, 0.009, 296.813**.

A 20% lighter version of the original color is **95, 71.266, 116.842**, and **66, 82.881, 126.176** is the 20% darker color. If you saturate the color by 10%, you get **85, 96.708, 124.019**, and if you desaturate by 10%, it is **87, 82.621, 123.164**.

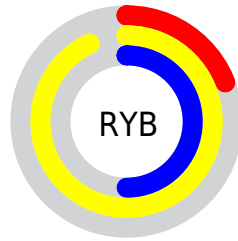
Distribution



Red (62%)

Green (93%)

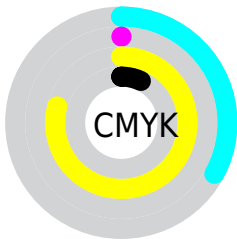
Blue (19%)



Red (19%)

Yellow (93%)

Blue (50%)

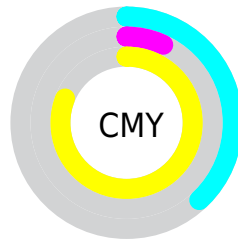


Cyan (33%)

Magenta (0%)

Yellow (79%)

Black (7%)



Cyan (38%)


Magenta (7%)


Yellow (81%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 86, 90.800, 123.366 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 86, 90.800, 123.366 by changing the saturation by 10% instead.


 86, 90.800,
123.366


 86, 90.800,
123.366


 100, 90.800,
123.366


 76, 90.800,
123.366

 66, 90.800,
123.366

 56, 90.800,
123.366

 46, 90.800,
123.366

 36, 90.800,
123.366


 26, 90.800,
123.366


 16, 90.800,


123.366


 6, 90.800, 123.366


 0, 90.800, 123.366

 86, 90.800,
123.366


 86, 90.800,
123.366


 85, 96.708,
124.019

 87, 82.621,
123.164

 85, 100.314,
125.136

 87, 72.694,
123.287

 85, 100.493,
125.201

 88, 61.567,
123.617

 89, 49.673,
124.063

 90, 37.318,

124.564

■ 91, 24.711,
125.081

■ 92, 11.995,
125.591

■ 94, 0.733, 305.928

■ 95, 10.098,
311.725

Harmonies

Complementary

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



86, 90.800, 123.366



42, 105.974, 310.499

Rectangle

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



86, 90.800, 123.366



86, 90.800, 173.366



86, 90.800, 303.366



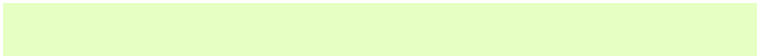
86, 90.800, 353.366

Sweetspot

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



86, 90.800, 123.367



97, 32.382, 124.839



64, 69.504, 56.292



51, 22.219, 124.655



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



86, 90.800, 123.367



91, 104.767, 124.650



83, 103.229, 135.962



49, 7.171, 125.590



67, 82.004, 124.920



20, 32.886, 124.084

Inverse Universe

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



42, 105.974, 310.499



40, 125.028, 310.212



55, 102.141, 324.619



45, 7.287, 306.503



26, 98.228, 310.152



4, 37.234, 308.781

Previews

White Background



This preview shows how the CIELCh color 86, 90.800, 123.366 looks on a white background.

Color Contrast Check

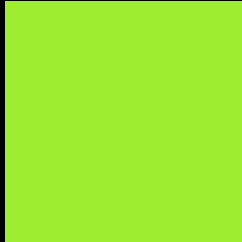
Large Text (above 18pt) WCAG AA × Fail

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 86, 90.800, 123.366 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 86, 90.800, 123.366

Background



This preview shows how black text looks on a background with the CIELCh color 86, 90.800, 123.366.

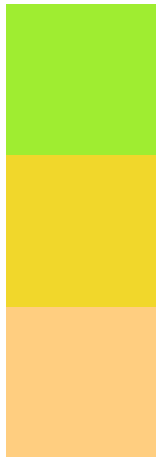


This preview shows how white text looks on a background with the CIELCh color 86, 90.800, 123.366.

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

86, 90.800, 123.366

Protanopia

86, 79.611, 95.214

Deuteranopia

85, 45.821, 79.926



Tritanopia
86, 15.429, 234.216

Trichromacy



Original Color
86, 90.800, 123.366



Protanomaly
85, 81.060, 106.999



Deuteranomaly
85, 59.138, 103.846

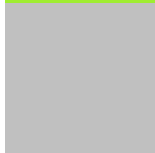


Tritanomaly
85, 36.144, 140.577

Monochromacy



Original Color
86, 90.800, 123.366



Achromatopsia
78, 0.009, 296.813



Achromatomaly
80, 37.232, 124.294

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 86, 90.800, 123.366 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(159, 237, 49)` looks like.

```
.text, #text, p{  
    color:rgb(159, 237, 49)  
}
```

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(159, 237, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 237, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 86, 90.800, 123.366 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(159, 237, 49) }
```

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

```
.border{ border-color:rgb(159, 237, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(159, 237, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 237, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 237, 49);  
box-shadow:4px 4px 4px 4px rgb(159, 237,  
49) }
```

Background

The CSS property to change the background color of an element to CIELCh 86, 90.800, 123.366 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 237, 49) }
```

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

```
.background{ background-color: rgb(159,  
237, 49) }
```

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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