

# Converting Colors

CIELCh(98, 47.733, 106.529)

Have a look what the booklet for  
CIELCh(98, 47.733, 106.529)  
contains.

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# **Color**

**CIELCh(98, 47.839, 106.520)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFF9F
RGB	255, 255, 159
RGB Percent	100%, 100%, 62%
CMY	0.0017, 0.0016, 0.3780
CMYK	0.00, 0.00, 0.38, 0.00
HSL	60°, 99%, 81%
HSV	60°, 38%, 100%
XYZ	82.9282, 94.9163, 46.5695
YIQ	244.0560, 30.8160, -29.8560

# Conversions

## Conversions Part 2

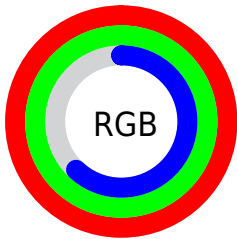
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	159, 255, 159
Decimal	16777119
CIE Lab	98.00, -13.60, 45.86
CIE LCh	98, 47.839, 106.520
Yxy	94.9163, 0.3695, 0.4230
Android (android.graphics.Color)	4294967199 (0xFFFFFFFF9F)
YUV	244.0560, -41.9326, 9.5979
Hunter-Lab	97.4250, -18.5544, 39.8566

# Details

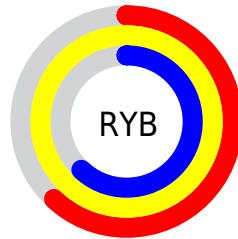
The CIELCh color **98, 47.839, 106.520** is a light color, and the websafe version is hex **FFFF99**, and the color name is **lemon yellow (crayola)**. A complement of this color would be **69, 52.735, 295.217**, and the grayscale version is **96, 0.011, 296.813**.

A 20% lighter version of the original color is **99, 20.216, 108.647**, and **78, 47.586, 106.278** is the 20% darker color. If you saturate the color by 10%, you get **98, 59.727, 105.609**, and if you desaturate by 10%, it is **98, 35.450, 107.481**.

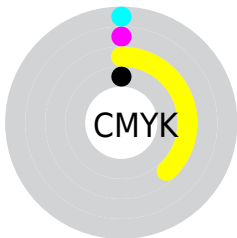
# Distribution



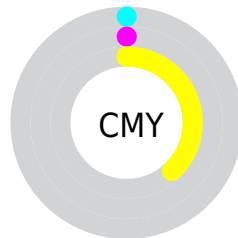
- Red (100%)
- Green (100%)
- Blue (62%)



- Red (62%)
- Yellow (100%)
- Blue (62%)



- Cyan (0%)
- Magenta (0%)
- Yellow (38%)
- Black (0%)



- Cyan (0%)
- Magenta (0%)
- Yellow (38%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 98, 47.839, 106.520 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 98, 47.839, 106.520 by changing the saturation by 10% instead.




 98, 47.839,  
106.520


 98, 47.839,  
106.520

 100, 47.839,  
106.520


 88, 47.839,  
106.520

 78, 47.839,  
106.520

 68, 47.839,  
106.520

 58, 47.839,  
106.520

 48, 47.839,  
106.520

 38, 47.839,  
106.520

 28, 47.839,

106.520

■ 18, 47.839,  
106.520

■ 8, 47.839, 106.520

■ 98, 47.839,  
106.520

■ 98, 47.839,  
106.520

■ 98, 59.727,  
105.609

■ 98, 35.450,  
107.481

■ 97, 70.783,  
104.768

■ 99, 22.766,  
108.458

■ 97, 80.538,  
104.039

■ 99, 9.926, 109.432

■ 97, 88.390,  
103.464

100, 0.224,  
290.631

100, 0.224,

■ 97, 93.748,  
103.079

291.034

100, 0.224,

■ 97, 96.391,  
102.891

291.437

100, 0.224,

■ 97, 96.790,  
102.863

291.840

100, 0.224,

292.243

100, 0.224,

292.645

# Harmonies

# Complementary

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



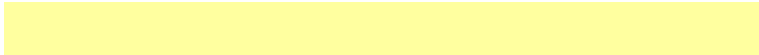
98, 47.839, 106.520



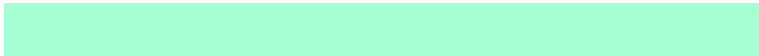
69, 52.735, 295.217

# Rectangle

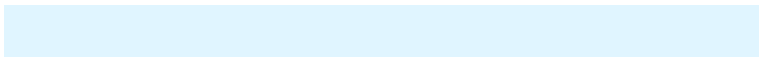
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



98, 47.839, 106.520



98, 47.839, 156.520



98, 47.839, 286.520



98, 47.839, 336.520

# Sweetspot

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



98, 47.841, 106.523



99, 14.193, 109.112



75, 38.760, 23.013



53, 9.534, 108.980



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

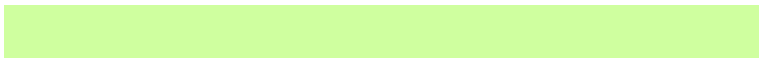
The Same Dimension uses a secret algorithm to generate beautiful new colors.



98, 47.841, 106.523



98, 56.658, 105.849



95, 51.513, 127.283



53, 7.338, 109.258



75, 78.056, 102.863



26, 35.525, 103.003



# Inverse Universe

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



69, 52.735, 295.217



63, 64.032, 296.583



73, 54.404, 310.968



49, 7.504, 291.180



23, 107.780, 306.288

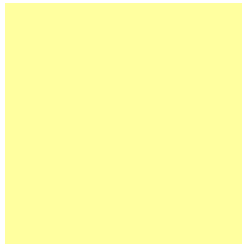


3, 44.127, 301.762



# Previews

## White Background



This preview shows how the CIE LCh color 98, 47.839, 106.520 looks on a white background.

## Color Contrast Check

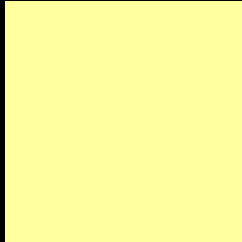
Large Text (above 18pt) WCAG AA × Fail

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 98, 47.839, 106.520 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

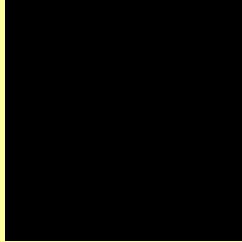
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 98, 47.839, 106.520**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 98, 47.839, 106.520.

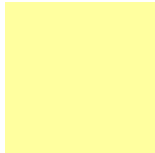


This preview shows how white text looks on a background with the CIELCh color 98, 47.839, 106.520.

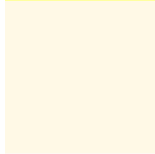
# Color Blindness Simulation

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](#).

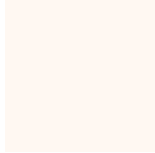
## Dichromacy



**Original Color**  
98, 47.839, 106.520




**Protanopia**  
98, 9.885, 96.715



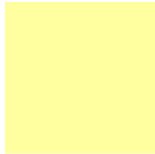
**Deuteranopia**  
98, 3.919, 70.425





**Tritanopia**  
98, 4.180, 332.450

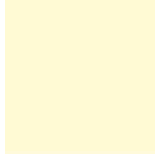
# Trichromacy



**Original Color**  
98, 47.839, 106.520



**Protanomaly**  
98, 23.839, 104.735



**Deuteranomaly**  
98, 19.358, 103.182

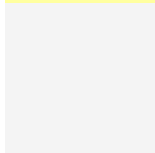


**Tritanomaly**  
98, 15.834, 102.288

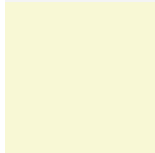
# Monochromacy



**Original Color**  
98, 47.839, 106.520



**Achromatopsia**  
96, 0.011, 296.813



**Achromatomaly**  
97, 17.791, 108.803

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 98, 47.839, 106.520 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(255, 255, 159)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 159)  
}
```

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(255, 255, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 159) }
```

## Border

The CSS property to change the border of an element to CIELCh 98, 47.839, 106.520 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(255, 255, 159) }
```

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

```
.border{ border-color:rgb(255, 255, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 255, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 159);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
159) }
```

# Background

The CSS property to change the background color of an element to CIELCh 98, 47.839, 106.520 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 255, 159) }
```

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

```
.background{ background-color: rgb(255,  
255, 159) }
```

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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