

# Converting Colors

CIELCh(100, 50.925, 97.992)

Have a look what the booklet for  
CIELCh(100, 50.925, 97.992)  
contains.

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# **Color**

**CIELCh(98, 49.747, 106.373)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFF9B
RGB	255, 255, 155
RGB Percent	100%, 100%, 61%
CMY	0.0011, 0.0010, 0.3931
CMYK	0.00, 0.00, 0.39, 0.00
HSL	60°, 99%, 80%
HSV	60°, 39%, 100%
XYZ	82.7096, 94.9163, 44.8614
YIQ	243.6000, 32.1000, -31.1000

# Conversions

## Conversions Part 2

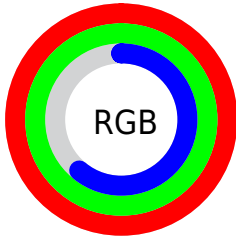
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	155, 255, 155
Decimal	16777115
CIE Lab	98.00, -14.02, 47.73
CIE LCh	98, 49.747, 106.373
Yxy	94.9163, 0.3717, 0.4266
Android (android.graphics.Color)	4294967195 (0xFFFFFFFF9B)
YUV	243.6000, -43.6798, 9.9978
Hunter-Lab	97.4250, -18.9549, 40.8962

# Details

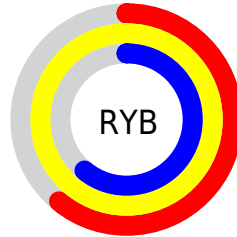
The CIELCh color **98, 49.747, 106.373** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **68, 55.117, 295.495**, and the grayscale version is **96, 0.011, 296.813**.

A 20% lighter version of the original color is **99, 22.227, 108.494**, and **78, 49.499, 106.083** is the 20% darker color. If you saturate the color by 10%, you get **98, 61.536, 105.471**, and if you desaturate by 10%, it is **98, 37.414, 107.329**.

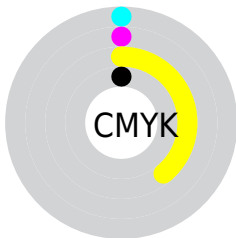
# Distribution



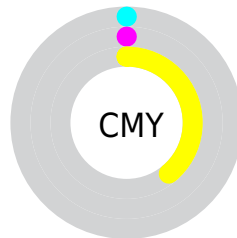
- Red (100%)
- Green (100%)
- Blue (61%)



- Red (61%)
- Yellow (100%)
- Blue (61%)



- Cyan (0%)
- Magenta (0%)
- Yellow (39%)
- Black (0%)



- Cyan (0%)
- Magenta (0%)
- Yellow (39%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 98, 49.747, 106.373 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, 49.747, 106.373 by changing the saturation by 10% instead.




 98, 49.747,  
106.373


 98, 49.747,  
106.373


 100, 49.747,  
106.373


 88, 49.747,  
106.373

 78, 49.747,  
106.373

 68, 49.747,  
106.373

 58, 49.747,  
106.373

 48, 49.747,  
106.373

 38, 49.747,  
106.373

 28, 49.747,

106.373

■ 18, 49.747,  
106.373

■ 8, 49.747, 106.373

■ 98, 49.747,  
106.373

■ 98, 49.747,  
106.373

■ 98, 61.536,  
105.471

■ 98, 37.414,  
107.329

■ 97, 72.431,  
104.645

■ 99, 24.759,  
108.304

■ 97, 81.937,  
103.937

■ 99, 11.930,  
109.281

■ 97, 89.440,  
103.389

■ 100, 0.143,  
290.764

■ 97, 94.376,  
103.035

100, 0.143,  
291.268

■ 97, 96.705,  
102.870

100, 0.144,  
291.773

■ 97, 96.835,  
102.861

100, 0.144,  
292.277

100, 0.144,  
292.780

100, 0.144,  
293.284

# Harmonies

# Complementary

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



98, 49.747, 106.373



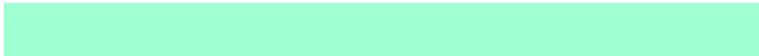
68, 55.117, 295.495

# Rectangle

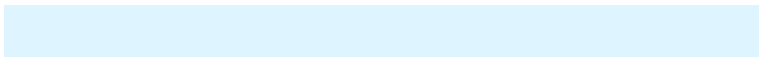
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



98, 49.747, 106.373



98, 49.747, 156.373



98, 49.747, 286.373



98, 49.747, 336.373

# Sweetspot

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



98, 49.749, 106.376



99, 15.481, 109.013



74, 40.591, 23.256



53, 10.265, 108.886



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

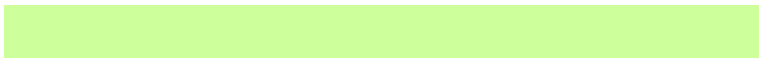
The Same Dimension uses a secret algorithm to generate beautiful new colors.



98, 49.749, 106.376



98, 58.995, 105.669



95, 53.596, 127.210



53, 7.338, 109.256



75, 78.056, 102.861



26, 35.525, 103.001



# Inverse Universe

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



68, 55.117, 295.495



61, 67.161, 296.979



72, 56.748, 311.054



49, 7.504, 291.179



23, 107.780, 306.288

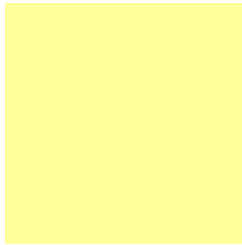


3, 44.127, 301.761



# Previews

## White Background



This preview shows how the CIE LCh color 98, 49.747, 106.373 looks on a white background.

## Color Contrast Check

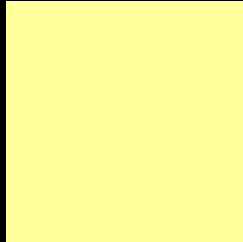
Large Text (above 18pt) WCAG AA × Fail

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, 49.747, 106.373 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

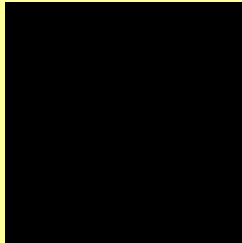
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 98, 49.747, 106.373**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 98, 49.747, 106.373.



This preview shows how white text looks on a background with the CIELCh color 98, 49.747, 106.373.

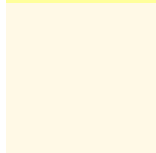
# Color Blindness Simulation

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](#).

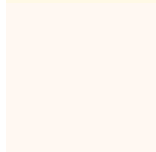
## Dichromacy



**Original Color**  
98, 49.747, 106.373




**Protanopia**  
98, 9.885, 96.715



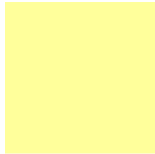
**Deuteranopia**  
98, 3.919, 70.425





**Tritanopia**  
98, 4.180, 332.450

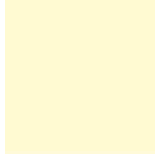
# Trichromacy



**Original Color**  
98, 49.747, 106.373



**Protanomaly**  
98, 24.341, 104.766



**Deuteranomaly**  
98, 20.364, 103.362

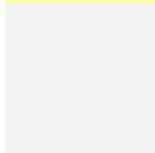


**Tritanomaly**  
98, 16.841, 102.593

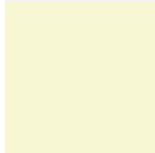
# Monochromacy



**Original Color**  
98, 49.747, 106.373



**Achromatopsia**  
96, 0.011, 296.813



**Achromatomaly**  
96, 18.311, 108.758

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 98, 49.747, 106.373 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, 155)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 155)  
}
```

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, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 155) }
```

## Border

The CSS property to change the border of an element to CIELCh 98, 49.747, 106.373 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, 155) }
```

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

```
.border{ border-color:rgb(255, 255, 155) }
```

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, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 155);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
155) }
```

# Background

The CSS property to change the background color of an element to CIELCh 98, 49.747, 106.373 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, 155) }
```

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

```
.background{ background-color: rgb(255,  
255, 155) }
```

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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