

# Converting Colors

CIELCh(90, 68.825, 97.817)

Have a look what the booklet for  
CIELCh(90, 68.825, 97.817) contains.

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# **Color**

**CIELCh(90, 68.834, 97.791)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F7E458
RGB	247, 228, 88
RGB Percent	97%, 89%, 35%
CMY	0.0295, 0.1041, 0.6532
CMYK	0.00, 0.08, 0.64, 0.03
HSL	53°, 91%, 66%
HSV	53°, 64%, 97%
XYZ	68.1707, 76.3034, 20.4630
YIQ	217.7210, 56.2640, -39.5120

# Conversions

## Conversions Part 2

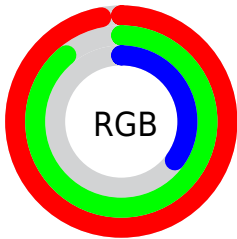
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	110, 247, 88
Decimal	16245848
CIE <sub>Lab</sub>	90.00, -9.33, 68.20
CIE <sub>LCh</sub>	90, 68.834, 97.791
Yxy	76.3034, 0.4133, 0.4626
Android (android.graphics.Color)	4294435928 (0xFFFF7E458)
YUV	217.7210, -63.9525, 25.6777
Hunter-Lab	87.3518, -13.5614, 47.2570

# Details

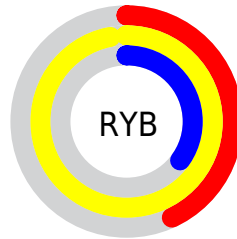
The CIELCh color **90, 68.834, 97.791** is a light color, and the websafe version is hex **FFFF66**. The color can be described as light muted yellow. A complement of this color would be **51, 80.720, 296.353**, and the grayscale version is **87, 0.010, 296.813**.

A 20% lighter version of the original color is **98, 54.921, 105.974**, and **70, 68.844, 97.944** is the 20% darker color. If you saturate the color by 10%, you get **89, 76.952, 96.769**, and if you desaturate by 10%, it is **91, 59.322, 98.863**.

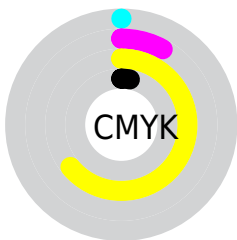
# Distribution



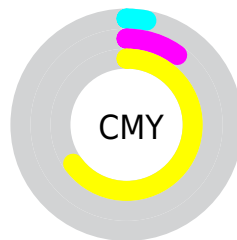
- Red (97%)
- Green (89%)
- Blue (35%)



- Red (43%)
- Yellow (97%)
- Blue (35%)



- Cyan (0%)
- Magenta (8%)
- Yellow (64%)
- Black (3%)



- Cyan (3%)
- Magenta (10%)
- Yellow (65%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 90, 68.834, 97.791 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, 68.834, 97.791 by changing the saturation by 10% instead.



90, 68.834, 97.791

90, 68.834, 97.791

100, 68.834,  
97.791

80, 68.834, 97.791

70, 68.834, 97.791

60, 68.834, 97.791

50, 68.834, 97.791

40, 68.834, 97.791

30, 68.834, 97.791

20, 68.834, 97.791

10, 68.834, 97.791

0, 68.834, 97.791

90, 68.834, 97.791

90, 68.834, 97.791

89, 76.952, 96.769

91, 59.322, 98.863

88, 82.966, 95.795

92, 48.968, 99.964

87, 86.255, 94.859

93, 38.145,  
101.079

87, 87.094, 94.326

94, 27.084,  
102.194

96, 15.923,  
103.294

97, 4.745, 104.354

98, 3.030, 279.225

99, 2.165, 242.108

99, 2.607, 199.494

# Harmonies

# Complementary

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



90, 68.834, 97.791



51, 80.720, 296.353

# Rectangle

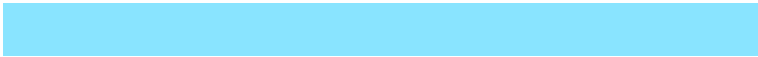
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



90, 68.834, 97.791



90, 68.834, 147.791



90, 68.834, 277.791



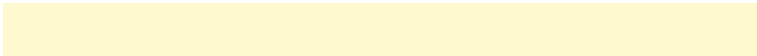
90, 68.834, 327.791

# Sweetspot

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



90, 68.834, 97.794



97, 21.738, 102.772



60, 65.728, 19.317



52, 14.959, 102.456



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, 68.834, 97.794



91, 80.731, 96.486



91, 79.496, 121.280



52, 6.392, 103.808



68, 71.132, 94.482



22, 31.212, 95.870





# Inverse Universe

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



51, 80.720, 296.353



45, 100.878, 299.794



52, 91.104, 308.652



48, 6.499, 285.923



25, 100.466, 304.603



4, 38.483, 298.696



# Previews

## White Background



This preview shows how the CIELCh color 90, 68.834, 97.791 looks on a white background.

## Color Contrast Check

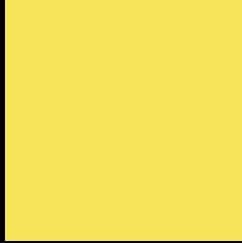
Large Text (above 18pt) WCAG AA × Fail

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, 68.834, 97.791 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, 68.834, 97.791**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 90, 68.834, 97.791.

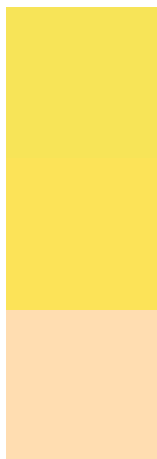


This preview shows how white text looks on a background with the CIELCh color 90, 68.834, 97.791.

# 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, 68.834, 97.791

### Protanopia

90, 68.846, 95.651

### Deuteranopia

90, 26.545, 77.999



**Tritanopia**  
90, 15.883, 353.466



# Trichromacy



**Original Color**  
90, 68.834, 97.791

**Protanomaly**  
90, 69.021, 96.740

**Deuteranomaly**  
90, 42.153, 91.069

**Tritanomaly**  
90, 25.014, 79.296

# Monochromacy



**Original Color**  
90, 68.834, 97.791

**Achromatopsia**  
87, 0.010, 296.813

**Achromatomaly**  
88, 26.518, 102.032

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 68.834, 97.791 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(247, 228, 88)` looks like.

```
.text, #text, p{  
    color:rgb(247, 228, 88)  
}
```

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(247, 228, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 228, 88) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 68.834, 97.791 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(247, 228, 88) }
```

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

```
.border{ border-color:rgb(247, 228, 88) }
```

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

Here you see how a box with a 4 pixel rgb(247, 228, 88) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 228, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 228, 88);  
box-shadow:4px 4px 4px 4px rgb(247, 228,  
88) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 68.834, 97.791 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 228, 88) }
```

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

```
.background{ background-color: rgb(247,  
228, 88) }
```

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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