

# Converting Colors

CIELCh(100, 28.398, 50.331)

Have a look what the booklet for  
CIELCh(100, 28.398, 50.331)  
contains.

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# **Color**

**CIELCh(96, 15.218, 89.017)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFF2D6
RGB	255, 242, 214
RGB Percent	100%, 95%, 84%
CMY	0.0000, 0.0500, 0.1600
CMYK	0.00, 0.05, 0.16, 0.00
HSL	41°, 100%, 92%
HSV	41°, 16%, 100%
XYZ	85.6886, 90.0078, 76.6139
YIQ	242.6950, 16.7360, -5.9520

# Conversions

## Conversions Part 2

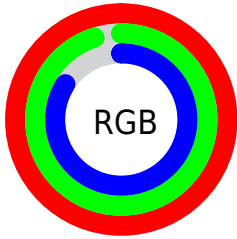
Format	Color
<a href="#">RYB</a>	<a href="#">233, 255, 214</a>
Decimal	<a href="#">16773846</a>
CIELab	<a href="#">96.00, 0.26, 15.22</a>
CIELCh	<a href="#">96, 15.218, 89.017</a>
Yxy	<a href="#">90.0078, 0.3396, 0.3567</a>
Android (android.graphics.Color)	<a href="#">4294963926 (0xFFFFF2D6)</a>
YUV	<a href="#">242.6950, -14.1466, 10.7915</a>
Hunter-Lab	<a href="#">94.8724, -4.8060, 18.5313</a>

# Details

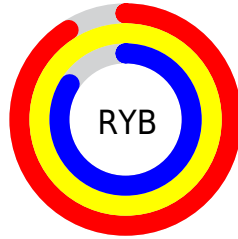
The CIELCh color **96, 15.218, 89.017** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **90, 15.075, 274.949**, and the grayscale version is **96, 0.011, 296.813**.

A 20% lighter version of the original color is **100, 0.012, 296.813**, and **76, 15.228, 90.665** is the 20% darker color. If you saturate the color by 10%, you get **93, 24.710, 89.403**, and if you desaturate by 10%, it is **98, 5.587, 91.945**.

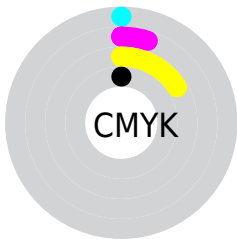
# Distribution



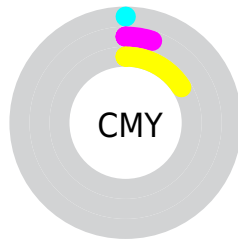
- Red (100%)
- Green (95%)
- Blue (84%)



- Red (91%)
- Yellow (100%)
- Blue (84%)



- Cyan (0%)
- Magenta (5%)
- Yellow (16%)
- Black (0%)



- Cyan (0%)
- Magenta (5%)
- Yellow (16%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 96, 15.218, 89.017 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 96, 15.218, 89.017 by changing the saturation by 10% instead.



 96, 15.218, 89.017

 96, 15.218, 89.017

 100, 15.218,  
89.017

 86, 15.218, 89.017

 76, 15.218, 89.017

 66, 15.218, 89.017

 56, 15.218, 89.017

 46, 15.218, 89.017

 36, 15.218, 89.017

 26, 15.218, 89.017

 16, 15.218, 89.017

 6, 15.218, 89.017

96, 15.218, 89.017

96, 15.218, 89.017

93, 24.710, 89.403

98, 5.587, 91.945

91, 34.488, 88.055

100, 0.012,  
296.813

89, 44.314, 86.665

86, 54.021, 85.230

84, 63.295, 83.725

82, 71.583, 82.100

80, 78.042, 80.245

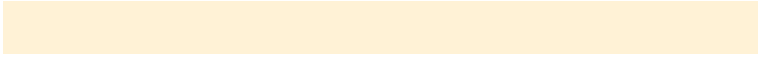
78, 81.740, 77.989

77, 82.630, 76.995

# Harmonies

# Complementary

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



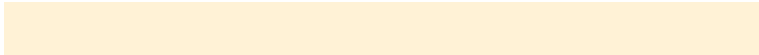
96, 15.218, 89.017



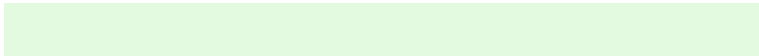
90, 15.075, 274.949

# Rectangle

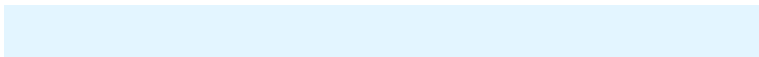
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



96, 15.218, 89.017



96, 15.218, 139.017



96, 15.218, 269.017



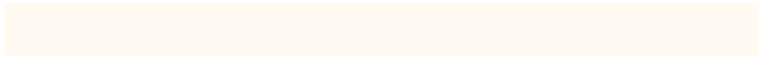
96, 15.218, 319.017

# Sweetspot

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



96, 15.064, 90.707



99, 4.652, 92.059



89, 16.278, 356.383



53, 3.177, 91.979



0, 0.000, 0.000



53, 0.007, 296.813

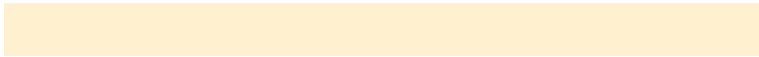


# Same Dimension

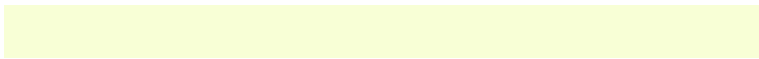
The Same Dimension uses a secret algorithm to generate beautiful new colors.



96, 15.064, 90.707



95, 17.945, 90.321



99, 20.829, 116.218



52, 5.318, 91.523



59, 66.594, 77.508



20, 28.384, 80.250





# Inverse Universe

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



90, 15.075, 274.949



88, 17.954, 275.424



87, 21.566, 298.601



50, 5.328, 274.002



32, 81.542, 297.790



8, 32.727, 292.828



# Previews

## White Background



This preview shows how the CIE LCh color 96, 15.218, 89.017 looks on a white background.

## Color Contrast Check

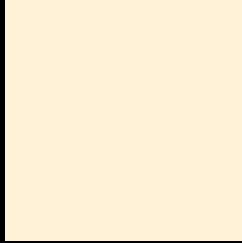
Large Text (above 18pt) WCAG AA × Fail

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 96, 15.218, 89.017 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

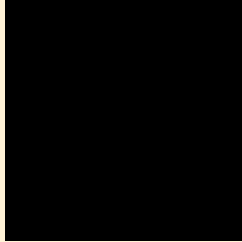
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 96, 15.218, 89.017

## Background



This preview shows how black text looks on a background with the CIELCh color 96, 15.218, 89.017.



This preview shows how white text looks on a background with the CIELCh color 96, 15.218, 89.017.

# 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


96, 15.080, 90.364

### Protanopia

96, 14.964, 91.722

### Deuteranopia

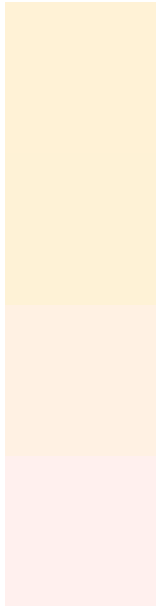
96, 5.960, 44.972



**Tritanopia**  
96, 8.376, 332.702



# Trichromacy



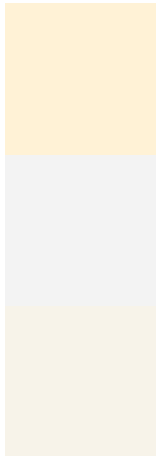
**Original Color**  
96, 15.080, 90.364

**Protanomaly**  
96, 14.964, 91.722

**Deuteranomaly**  
96, 8.771, 74.019

**Tritanomaly**  
96, 5.464, 30.405

# Monochromacy



**Original Color**  
96, 15.080, 90.364

**Achromatopsia**  
96, 0.011, 296.813

**Achromatomaly**  
96, 5.290, 94.016

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 96, 15.218, 89.017 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, 242, 214)` looks like.

```
.text, #text, p{  
  color:rgb(255, 242, 214)  
}
```

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, 242, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 242, 214) }
```

## Border

The CSS property to change the border of an element to CIELCh 96, 15.218, 89.017 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, 242, 214) }
```

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

```
.border{ border-color:rgb(255, 242, 214) }
```

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

Here you see how a box with a 4 pixel rgb(255, 242, 214) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 242, 214); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 242, 214);  
box-shadow:4px 4px 4px 4px rgb(255, 242,  
214) }
```

# Background

The CSS property to change the background color of an element to CIELCh 96, 15.218, 89.017 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 242, 214) }
```

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

```
.background{ background-color: rgb(255,  
242, 214) }
```

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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