

# Converting Colors

CIELCh(89, 20.426, 88.660)

Have a look what the booklet for  
CIELCh(89, 20.426, 88.660) contains.

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# Color

**CIELCh(89, 20.408, 88.672)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F0DEB9
RGB	240, 222, 185
RGB Percent	94%, 87%, 73%
CMY	0.0594, 0.1299, 0.2750
CMYK	0.00, 0.08, 0.23, 0.06
HSL	40°, 64%, 83%
HSV	40°, 23%, 94%
XYZ	70.7120, 74.1641, 56.4113
YIQ	223.1640, 22.6050, -7.6910

# Conversions

## Conversions Part 2

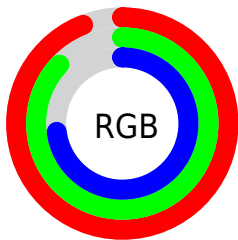
Format	Color
R <sub>Y</sub> B	212, 240, 185
Decimal	15785657
CIE Lab	89.00, 0.47, 20.40
CIE LCh	89, 20.408, 88.672
Yxy	74.1641, 0.3513, 0.3684
Android (android.graphics.Color)	4293975737 (0xFFF0DEB9)
YUV	223.1640, -18.8149, 14.7652
Hunter-Lab	86.1186, -4.1411, 21.4456

# Details

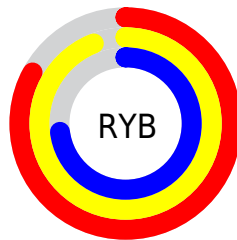
The CIELCh color **89, 20.408, 88.672** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **81, 20.339, 274.979**, and the grayscale version is **89, 0.011, 296.813**.

A 20% lighter version of the original color is **100, 7.086, 109.637**, and **69, 20.239, 89.156** is the 20% darker color. If you saturate the color by 10%, you get **87, 29.589, 87.339**, and if you desaturate by 10%, it is **91, 11.387, 89.973**.

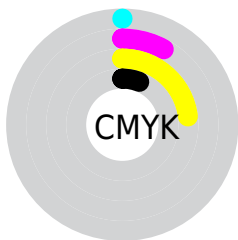
# Distribution



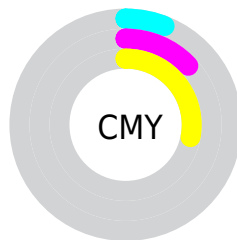
- Red (94%)
- Green (87%)
- Blue (73%)



- Red (83%)
- Yellow (94%)
- Blue (73%)



- Cyan (0%)
- Magenta (8%)
- Yellow (23%)
- Black (6%)



- Cyan (6%)
- Magenta (13%)
- Yellow (28%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 89, 20.408, 88.672 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 89, 20.408, 88.672 by changing the saturation by 10% instead.



89, 20.408, 88.672

89, 20.408, 88.672

100, 20.408,  
88.672

79, 20.408, 88.672

69, 20.408, 88.672

59, 20.408, 88.672

49, 20.408, 88.672

39, 20.408, 88.672

29, 20.408, 88.672

19, 20.408, 88.672

9, 20.408, 88.672

0, 20.408, 88.672

89, 20.408, 88.672

89, 20.408, 88.672

87, 29.589, 87.339

91, 11.387, 89.973

84, 38.870, 85.957

94, 2.543, 91.149

82, 48.130, 84.529

97, 5.243, 269.214

80, 57.134, 83.040

98, 4.681, 210.239

78, 65.451, 81.445

99, 5.212, 199.202

76, 72.376, 79.651

74, 76.986, 77.494

72, 78.801, 75.717

# Harmonies

# Complementary

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



89, 20.408, 88.672



81, 20.339, 274.979

# Rectangle

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



89, 20.408, 88.672



89, 20.408, 138.672



89, 20.408, 268.672



89, 20.408, 318.672

# Sweetspot

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



89, 20.409, 88.679



98, 6.435, 90.701



80, 22.635, 356.059



52, 4.185, 90.629



0, 0.000, 0.000



53, 0.007, 296.813

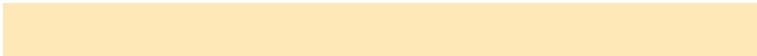


# Same Dimension

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



89, 20.409, 88.679



93, 26.327, 87.992



93, 28.285, 115.031



49, 4.983, 90.404



57, 64.516, 76.239



17, 24.657, 79.061





# Inverse Universe

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



81, 20.339, 274.979



83, 26.217, 275.913



78, 29.775, 298.651



47, 4.985, 272.889



31, 77.139, 296.925



7, 28.415, 290.276



# Previews

## White Background



This preview shows how the CIELCh color 89, 20.408, 88.672 looks on a white background.

## Color Contrast Check

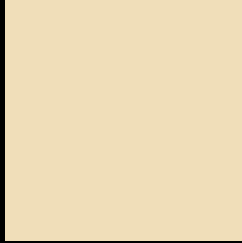
Large Text (above 18pt) WCAG AA × Fail

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 89, 20.408, 88.672 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

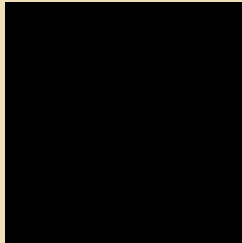
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

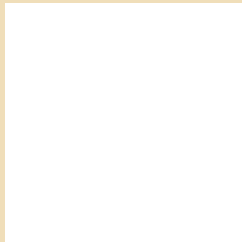
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 89, 20.408, 88.672**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 89, 20.408, 88.672.

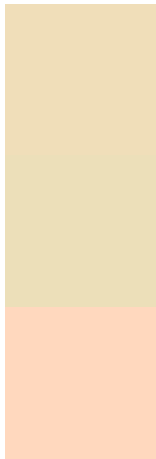


This preview shows how white text looks on a background with the CIELCh color 89, 20.408, 88.672.

# 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

89, 20.408, 88.672

### Protanopia

89, 20.305, 94.269

### Deuteranopia

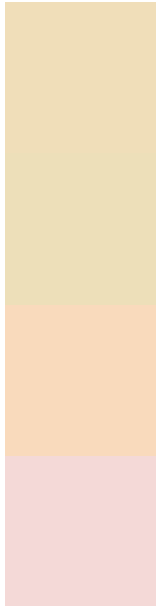
89, 20.373, 61.284



**Tritanopia**  
89, 14.245, 342.129



# Trichromacy



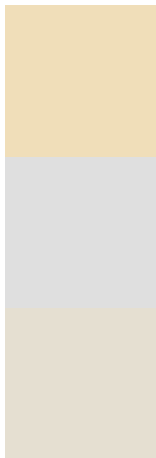
**Original Color**  
89, 20.408, 88.672

**Protanomaly**  
89, 20.405, 93.214

**Deuteranomaly**  
89, 19.740, 71.486

**Tritanomaly**  
89, 10.015, 25.987

# Monochromacy



**Original Color**  
89, 20.408, 88.672

**Achromatopsia**  
89, 0.011, 296.813

**Achromatomaly**  
89, 7.578, 92.601

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 89, 20.408, 88.672 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(240, 222, 185)` looks like.

```
.text, #text, p{  
    color:rgb(240, 222, 185)  
}
```

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(240, 222, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 222, 185) }
```

## Border

The CSS property to change the border of an element to CIELCh 89, 20.408, 88.672 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(240, 222, 185) }
```

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

```
.border{ border-color:rgb(240, 222, 185) }
```

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

Here you see how a box with a 4 pixel `rgb(240, 222, 185)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 222, 185); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 222, 185);  
box-shadow:4px 4px 4px 4px rgb(240, 222,  
185) }
```

# Background

The CSS property to change the background color of an element to CIELCh 89, 20.408, 88.672 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 222, 185) }
```

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

```
.background{ background-color: rgb(240,  
222, 185) }
```

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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