

# Converting Colors

CIELCh(78, 16.461, 103.332)

Have a look what the booklet for  
CIELCh(78, 16.461, 103.332)  
contains.

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# **Color**

**CIELCh(78, 16.558, 103.224)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C6C2A3
RGB	198, 194, 163
RGB Percent	78%, 76%, 64%
CMY	0.2237, 0.2393, 0.3609
CMYK	0.00, 0.02, 0.18, 0.22
HSL	53°, 23%, 71%
HSV	53°, 18%, 78%
XYZ	49.1712, 53.2120, 42.3139
YIQ	191.6620, 12.3350, -8.7930

# Conversions

## Conversions Part 2

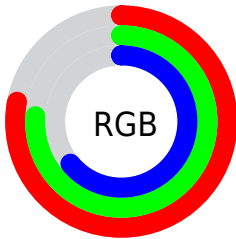
<b>Format</b>	<b>Color</b>
<b>RYB</b>	168, 198, 163
Decimal	13025955
CIELab	78.00, -3.79, 16.12
CIELCh	78, 16.558, 103.224
Yxy	53.2120, 0.3398, 0.3677
Android (android.graphics.Color)	4291216035 (0xFFC6C2A3)
YUV	191.6620, -14.1304, 5.5584
Hunter-Lab	72.9466, -7.3348, 16.6704

# Details

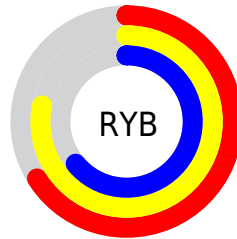
The CIELCh color **78, 16.558, 103.224** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **69, 17.062, 287.218**, and the grayscale version is **78, 0.009, 296.813**.

A 20% lighter version of the original color is **98, 16.337, 102.447**, and **58, 16.441, 102.354** is the 20% darker color. If you saturate the color by 10%, you get **77, 25.900, 102.145**, and if you desaturate by 10%, it is **79, 7.184, 104.291**.

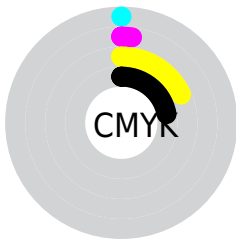
# Distribution



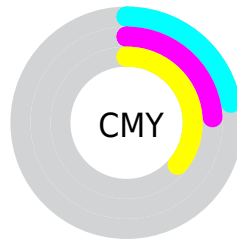
- Red (78%)
- Green (76%)
- Blue (64%)



- Red (66%)
- Yellow (78%)
- Blue (64%)



- Cyan (0%)
- Magenta (2%)
- Yellow (18%)
- Black (22%)




- Cyan (22%)
- Magenta (24%)
- Yellow (36%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 78, 16.558, 103.224 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 78, 16.558, 103.224 by changing the saturation by 10% instead.





 78, 16.558,  
103.224

 78, 16.558,  
103.224


 100, 16.558,  
103.224


 68, 16.558,  
103.224


 98, 16.558,  
103.224

 58, 16.558,  
103.224

 48, 16.558,  
103.224

 38, 16.558,  
103.224

 28, 16.558,  
103.224

 18, 16.558,  
103.224

 8, 16.558, 103.224

■ 0, 16.558, 103.224

■ 78, 16.558,  
103.224

■ 78, 16.558,  
103.224

■ 77, 25.900,  
102.145

■ 79, 7.184, 104.291

■ 76, 35.124,  
101.051

■ 80, 2.181, 285.399

■ 75, 44.098, 99.962

■ 81, 11.504,  
286.364

■ 74, 52.606, 98.894

■ 82, 20.771,  
287.327

■ 74, 60.306, 97.864

■ 83, 26.330,  
287.254

■ 73, 66.709, 96.885

■ 84, 25.158,  
285.213

■ 72, 71.233, 95.962

■ 85, 24.020,

■ 72, 73.545, 95.078 282.985

■ 71, 73.954, 94.877 ■ 85, 22.922,  
280.549

■ 86, 21.869,  
277.885

# Harmonies

# Complementary

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



78, 16.558, 103.224



69, 17.062, 287.218

# Rectangle

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



78, 16.558, 103.224



78, 16.558, 153.224



78, 16.558, 283.224



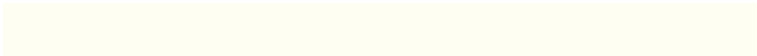
78, 16.558, 333.224

# Sweetspot

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



78, 16.560, 103.230



99, 5.739, 104.557



70, 13.774, 11.396



53, 3.917, 104.485



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



78, 16.560, 103.230



97, 24.156, 102.838



78, 19.320, 124.000



42, 5.328, 104.113



60, 64.145, 94.999



12, 17.747, 99.149



# Inverse Universe

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



69, 17.062, 287.218



84, 25.052, 287.728



69, 19.909, 305.847



39, 5.417, 286.164



20, 89.959, 304.520

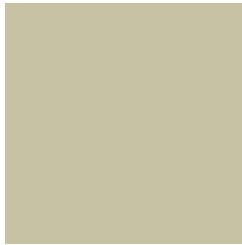


2, 19.790, 288.675



# Previews

## White Background



This preview shows how the CIELCh color 78, 16.558, 103.224 looks on a white background.

## Color Contrast Check

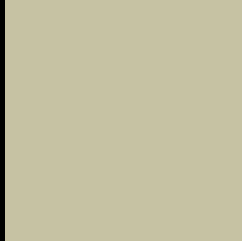
Large Text (above 18pt) WCAG AA × Fail

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 78, 16.558, 103.224 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

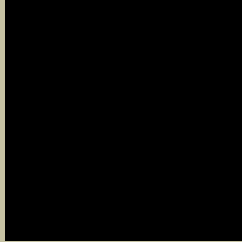
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

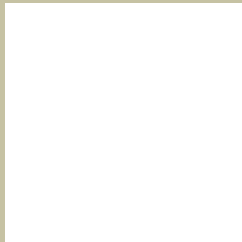
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 78, 16.558, 103.224**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 78, 16.558, 103.224.



This preview shows how white text looks on a background with the CIELCh color 78, 16.558, 103.224.

# 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

78, 16.558, 103.224


### Protanopia

78, 16.558, 93.525

### Deuteranopia

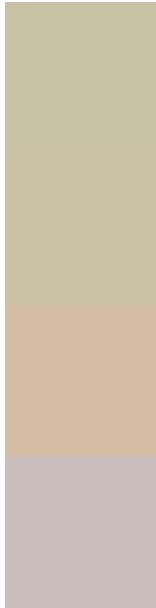
78, 17.964, 58.488





**Tritanopia**  
78, 9.769, 324.818

# Trichromacy



**Original Color**  
78, 16.558, 103.224

**Protanomaly**  
78, 16.793, 97.852

**Deuteranomaly**  
78, 16.425, 73.632

**Tritanomaly**  
78, 4.245, 34.148

# Monochromacy



**Original Color**  
78, 16.558, 103.224

**Achromatopsia**  
78, 0.009, 296.813

**Achromatomaly**  
78, 6.408, 106.205

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 78, 16.558, 103.224 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(198, 194, 163)` looks like.

```
.text, #text, p{  
    color:rgb(198, 194, 163)  
}
```

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(198, 194, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(198, 194, 163) }
```

## Border

The CSS property to change the border of an element to CIELCh 78, 16.558, 103.224 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(198, 194, 163) }
```

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

```
.border{ border-color:rgb(198, 194, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(198, 194, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(198, 194, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(198, 194, 163);  
box-shadow:4px 4px 4px 4px rgb(198, 194,  
163) }
```

# Background

The CSS property to change the background color of an element to CIELCh 78, 16.558, 103.224 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(198, 194, 163) }
```

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

```
.background{ background-color: rgb(198,  
194, 163) }
```

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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