

# Converting Colors

CIELCh(78, 12.528, 105.444)

Have a look what the booklet for  
CIELCh(78, 12.528, 105.444)  
contains.

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# **Color**

**CIELCh(78, 12.798, 105.537)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C4C2AA
RGB	196, 194, 170
RGB Percent	77%, 76%, 67%
CMY	0.2314, 0.2393, 0.3334
CMYK	0.00, 0.01, 0.13, 0.23
HSL	55°, 18%, 72%
HSV	55°, 13%, 77%
XYZ	49.3035, 53.2120, 45.6953
YIQ	191.8620, 8.8960, -7.0400

# Conversions

## Conversions Part 2

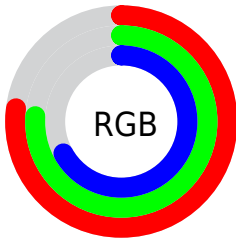
Format	Color
<b>RYB</b>	172, 196, 170
Decimal	12894890
CIELab	78.00, -3.43, 12.33
CIElCh	78, 12.798, 105.537
Yxy	53.2120, 0.3327, 0.3590
Android (android.graphics.Color)	4291084970 (0xFFC4C2AA)
YUV	191.8620, -10.7780, 3.6290
Hunter-Lab	72.9466, -7.0110, 13.9220

# Details

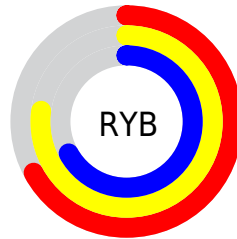
The CIELCh color **78, 12.798, 105.537** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **71, 13.127, 288.390**, and the grayscale version is **78, 0.009, 296.813**.

A 20% lighter version of the original color is **98, 12.736, 104.274**, and **58, 12.455, 104.898** is the 20% darker color. If you saturate the color by 10%, you get **77, 22.418, 104.507**, and if you desaturate by 10%, it is **79, 3.144, 106.545**.

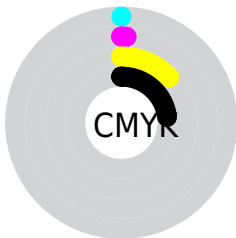
# Distribution



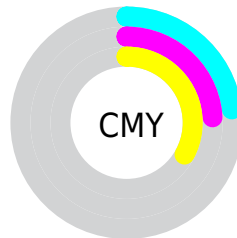
- Red (77%)
- Green (76%)
- Blue (67%)



- Red (67%)
- Yellow (77%)
- Blue (67%)



- Cyan (0%)
- Magenta (1%)
- Yellow (13%)
- Black (23%)




- Cyan (23%)
- Magenta (24%)
- Yellow (33%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 78, 12.798, 105.537 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, 12.798, 105.537 by changing the saturation by 10% instead.





 78, 12.798,  
105.537

 78, 12.798,  
105.537


 100, 12.798,  
105.537


 68, 12.798,  
105.537


 98, 12.798,  
105.537

 58, 12.798,  
105.537

 48, 12.798,  
105.537

 38, 12.798,  
105.537

 28, 12.798,  
105.537

 18, 12.798,  
105.537

 8, 12.798, 105.537

0, 12.798, 105.537

78, 12.798,  
105.537

78, 12.798,  
105.537

77, 22.418,  
104.507

79, 3.144, 106.545

76, 31.929,  
103.462

80, 6.506, 287.586

76, 41.216,  
102.426

81, 16.122,  
288.540

75, 50.096,  
101.418

82, 25.687,  
289.462

75, 58.277,  
100.459

82, 28.365,  
289.006

74, 65.338, 99.574

83, 27.561,  
287.808

83, 26.769,

■ 73, 70.742, 98.785 286.542

■ 73, 74.003, 98.100 ■ 83, 25.991,  
285.204

■ 73, 75.219, 97.682 ■ 84, 25.228,  
283.788

# Harmonies

# Complementary

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



78, 12.798, 105.537



71, 13.127, 288.390

# Rectangle

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



78, 12.798, 105.537



78, 12.798, 155.537



78, 12.798, 285.537



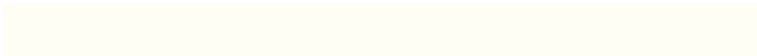
78, 12.798, 335.537

# Sweetspot

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



78, 12.800, 105.544



100, 4.772, 106.470



72, 10.063, 13.566



53, 3.392, 106.397



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, 12.800, 105.544



98, 19.113, 105.236



78, 14.479, 125.472



41, 5.420, 105.944



61, 64.961, 97.762



11, 16.944, 102.344



# Inverse Universe

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



71, 13.127, 288.390



88, 19.712, 288.767



71, 14.793, 306.765



38, 5.521, 287.924



19, 91.037, 305.187

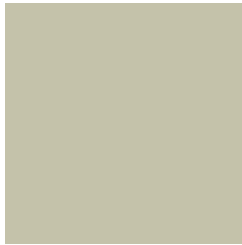


1, 18.415, 289.029



# Previews

## White Background



This preview shows how the CIELCh color 78, 12.798, 105.537 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, 12.798, 105.537 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

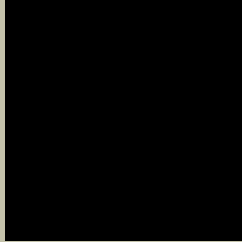
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

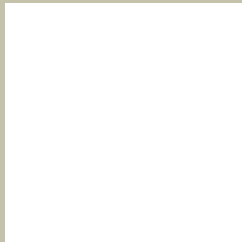
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 78, 12.798, 105.537**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 78, 12.798, 105.537.



This preview shows how white text looks on a background with the CIELCh color 78, 12.798, 105.537.

# 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, 12.798, 105.537


### Protanopia

78, 12.856, 91.445

### Deuteranopia

78, 14.987, 49.954





**Tritanopia**  
78, 9.190, 319.111

# Trichromacy



**Original Color**  
78, 12.798, 105.537

**Protanomaly**  
78, 13.062, 96.995

**Deuteranomaly**  
78, 12.908, 67.622

**Tritanomaly**  
78, 3.020, 9.289

# Monochromacy



**Original Color**  
78, 12.798, 105.537

**Achromatopsia**  
78, 0.009, 296.813

**Achromatomaly**  
78, 4.800, 109.722

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 78, 12.798, 105.537 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(196, 194, 170)` looks like.

```
.text, #text, p{  
    color:rgb(196, 194, 170)  
}
```

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(196, 194, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 194, 170) }
```

## Border

The CSS property to change the border of an element to CIELCh 78, 12.798, 105.537 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(196, 194, 170) }
```

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

```
.border{ border-color:rgb(196, 194, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(196, 194, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 194, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 194, 170);  
box-shadow:4px 4px 4px 4px rgb(196, 194,  
170) }
```

# Background

The CSS property to change the background color of an element to CIELCh 78, 12.798, 105.537 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 194, 170) }
```

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

```
.background{ background-color: rgb(196,  
194, 170) }
```

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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