

# Converting Colors

CIELCh(77, 17.603, 128.868)

Have a look what the booklet for  
CIELCh(77, 17.603, 128.868)  
contains.

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# **Color**

**CIELCh(77, 17.676, 128.932)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B3C3A4
RGB	179, 195, 164
RGB Percent	70%, 76%, 64%
CMY	0.2965, 0.2337, 0.3554
CMYK	0.08, 0.00, 0.16, 0.23
HSL	91°, 21%, 71%
HSV	91°, 16%, 77%
XYZ	45.0196, 51.5317, 42.8771
YIQ	186.6820, 0.4150, -13.0330

# Conversions

## Conversions Part 2

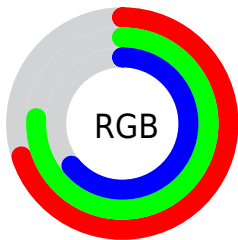
Format	Color
<a href="#">RYB</a>	<a href="#">164, 195, 180</a>
Decimal	<a href="#">11781028</a>
CIELab	<a href="#">77.00, -11.11, 13.75</a>
CIElCh	<a href="#">77, 17.676, 128.932</a>
Yxy	<a href="#">51.5317, 0.3229, 0.3696</a>
Android (android.graphics.Color)	<a href="#">4289971108 (0xFFB3C3A4)</a>
YUV	<a href="#">186.6820, -11.1822, -6.7371</a>
Hunter-Lab	<a href="#">71.7856, -13.6804, 14.8364</a>

# Details

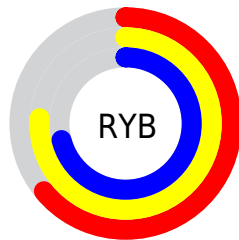
The CIELCh color **77, 17.676, 128.932** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **70, 18.049, 310.341**, and the grayscale version is **76, 0.009, 296.813**.

A 20% lighter version of the original color is **97, 17.921, 129.019**, and **57, 17.560, 128.774** is the 20% darker color. If you saturate the color by 10%, you get **76, 28.797, 128.456**, and if you desaturate by 10%, it is **78, 6.525, 129.399**.

# Distribution



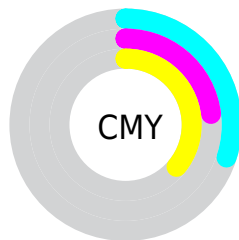
- Red (70%)
- Green (76%)
- Blue (64%)



- Red (64%)
- Yellow (76%)
- Blue (71%)



- Cyan (8%)
- Magenta (0%)
- Yellow (16%)
- Black (23%)




- Cyan (30%)
- Magenta (23%)
- Yellow (36%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 77, 17.676, 128.932 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 77, 17.676, 128.932 by changing the saturation by 10% instead.





 77, 17.676,  
128.932

 77, 17.676,  
128.932


 100, 17.676,  
128.932


 67, 17.676,  
128.932


 97, 17.676,  
128.932

 57, 17.676,  
128.932

 47, 17.676,  
128.932

 37, 17.676,  
128.932

 27, 17.676,  
128.932

 17, 17.676,  
128.932

 7, 17.676, 128.932

0, 17.676, 128.932

77, 17.676,  
128.932

77, 17.676,  
128.932

76, 28.797,  
128.456

78, 6.525, 129.399

75, 39.771,  
127.972

79, 4.586, 309.774

74, 50.446,  
127.513

81, 15.599,  
310.178

73, 60.595,  
127.128

82, 26.477,  
310.528

72, 69.897,  
126.893

84, 33.711,  
312.771

72, 77.926,  
126.917

84, 34.973,  
318.210

85, 36.517,

■ 71, 84.207,  
127.327

323.321

■ 71, 88.417,  
128.216

■ 86, 37.381,  
325.723

■ 71, 89.805,  
128.632

# Harmonies

# Complementary

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



77, 17.676, 128.932



70, 18.049, 310.341

# Rectangle

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



77, 17.676, 128.932



77, 17.676, 178.932



77, 17.676, 308.932



77, 17.676, 358.932

# Sweetspot

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



77, 17.678, 128.934



99, 6.892, 129.436



74, 10.328, 73.453



53, 4.704, 129.403



0, 0.000, 0.000



53, 0.007, 296.813



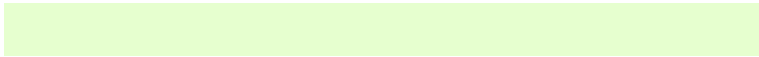


# Same Dimension

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



77, 17.678, 128.934



97, 26.269, 128.772



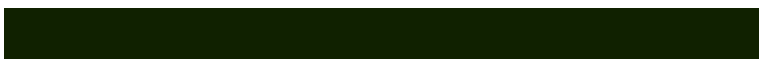
76, 20.409, 143.473



40, 6.264, 129.237



59, 77.489, 128.396



11, 21.236, 133.006



# Inverse Universe

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



70, 18.049, 310.341



86, 26.940, 310.509



71, 20.428, 325.294



38, 6.347, 310.030



25, 87.927, 312.392



2, 20.272, 305.928



# Previews

## White Background



This preview shows how the CIELCh color 77, 17.676, 128.932 looks on a white background.

## Color Contrast Check

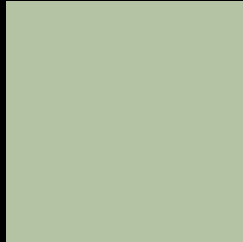
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 77, 17.676, 128.932 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

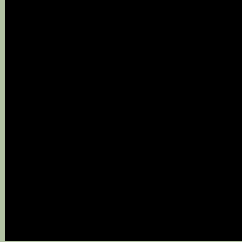
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 77, 17.676, 128.932**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 77, 17.676, 128.932.



This preview shows how white text looks on a background with the CIELCh color 77, 17.676, 128.932.

# 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**  
77, 17.676, 128.932

**Protanopia**  
77, 15.576, 92.619

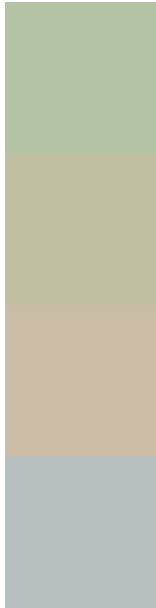
**Deuteranopia**  
77, 15.658, 53.160





**Tritanopia**  
77, 8.217, 278.463

# Trichromacy



**Original Color**  
77, 17.676, 128.932

**Protanomaly**  
77, 15.492, 105.833

**Deuteranomaly**  
77, 13.156, 82.571

**Tritanomaly**  
77, 3.476, 181.295

# Monochromacy



**Original Color**  
77, 17.676, 128.932

**Achromatopsia**  
76, 0.009, 296.813

**Achromatomaly**  
76, 6.331, 130.418

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 77, 17.676, 128.932 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(179, 195, 164)` looks like.

```
.text, #text, p{  
    color:rgb(179, 195, 164)  
}
```

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(179, 195, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(179, 195, 164) }
```

## Border

The CSS property to change the border of an element to CIELCh 77, 17.676, 128.932 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(179, 195, 164) }
```

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

```
.border{ border-color:rgb(179, 195, 164) }
```

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

Here you see how a box with a 4 pixel `rgb(179, 195, 164)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(179, 195, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(179, 195, 164);  
box-shadow:4px 4px 4px 4px rgb(179, 195,  
164) }
```

# Background

The CSS property to change the background color of an element to CIELCh 77, 17.676, 128.932 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(179, 195, 164) }
```

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

```
.background{ background-color: rgb(179,  
195, 164) }
```

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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