

# Converting Colors

CIELCh(76, 23.015, 201.380)

Have a look what the booklet for  
CIELCh(76, 23.015, 201.380)  
contains.

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# Color

**CIELCh(76, 23.050, 201.783)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	80C7CA
RGB	128, 199, 202
RGB Percent	50%, 78%, 79%
CMY	0.4968, 0.2183, 0.2066
CMYK	0.37, 0.01, 0.00, 0.21
HSL	182°, 41%, 65%
HSV	182°, 37%, 79%
XYZ	40.1453, 49.8872, 63.5886
YIQ	178.1130, -43.2790, -14.1190

# Conversions

## Conversions Part 2

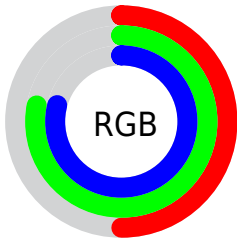
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 164, 202
Decimal	8439754
CIE <sub>Lab</sub>	76.00, -21.40, -8.55
CIE <sub>LCh</sub>	76, 23.050, 201.783
Yxy	49.8872, 0.2613, 0.3247
Android (android.graphics.Color)	4286629834 (0xFF80C7CA)
YUV	178.1130, 11.7763, -43.9491
Hunter-Lab	70.6309, -22.1479, -3.9368

# Details

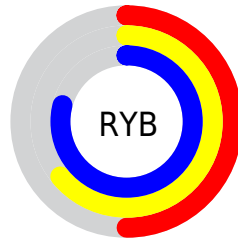
The CIELCh color **76, 23.050, 201.783** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **62, 29.939, 25.677**, and the grayscale version is **73, 0.009, 296.813**.

A 20% lighter version of the original color is **96, 22.846, 198.009**, and **56, 22.980, 201.633** is the 20% darker color. If you saturate the color by 10%, you get **75, 27.959, 201.645**, and if you desaturate by 10%, it is **77, 17.443, 202.012**.

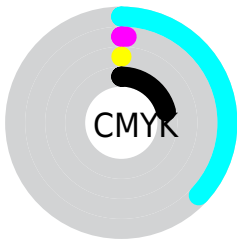
# Distribution



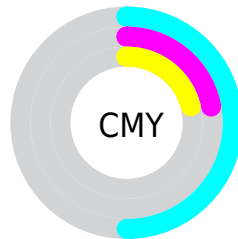
- Red (50%)
- Green (78%)
- Blue (79%)



- Red (50%)
- Yellow (64%)
- Blue (79%)



- Cyan (37%)
- Magenta (1%)
- Yellow (0%)
- Black (21%)




- Cyan (50%)
- Magenta (22%)
- Yellow (21%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 76, 23.050, 201.783 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 76, 23.050, 201.783 by changing the saturation by 10% instead.





 76, 23.050,  
201.783


 76, 23.050,  
201.783


 100, 23.050,  
201.783


 66, 23.050,  
201.783


 96, 23.050,  
201.783

 56, 23.050,  
201.783

 46, 23.050,  
201.783

 36, 23.050,  
201.783

 26, 23.050,  
201.783

 16, 23.050,  
201.783

 6, 23.050, 201.783

0, 23.050, 201.783

76, 23.050,  
201.783

76, 23.050,  
201.783

75, 27.959,  
201.645

77, 17.443,  
202.012

74, 32.068,  
201.619

79, 11.251,  
202.333

73, 35.304,  
201.717

80, 4.586, 202.773

82, 2.442, 22.840

72, 37.630,  
201.951

84, 9.739, 23.471

72, 39.066,  
202.331

86, 17.223, 23.985

72, 39.704,  
202.857

87, 18.999, 25.074

■ 72, 39.834,  
203.054

■ 87, 18.734, 26.400

■ 87, 18.480, 27.763

# Harmonies

# Complementary

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



76, 23.050, 201.783



62, 29.939, 25.677

# Rectangle

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



76, 23.050, 201.783



76, 23.050, 251.783



76, 23.050, 21.783



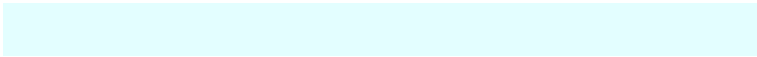
76, 23.050, 71.783

# Sweetspot

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



76, 23.050, 201.780



98, 9.150, 202.548



75, 47.171, 142.625



52, 6.125, 202.490



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



76, 23.050, 201.780



92, 32.200, 201.663



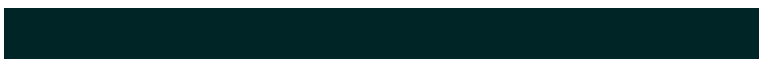
66, 24.071, 265.091



42, 3.955, 202.627



59, 34.374, 202.954



12, 12.932, 201.532



# Inverse Universe

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



64, 46.890, 327.556



75, 67.353, 327.973



71, 26.116, 74.245



40, 7.334, 326.041



39, 81.117, 329.896

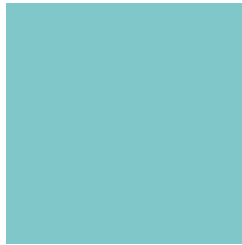


5, 28.115, 328.833



# Previews

## White Background



This preview shows how the CIELCh color 76, 23.050, 201.783 looks on a white background.

## Color Contrast Check

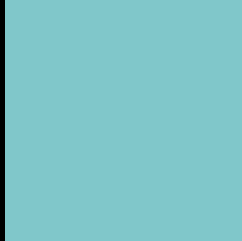
Large Text (above 18pt) WCAG AA × Fail

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 76, 23.050, 201.783 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

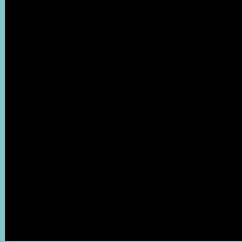
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

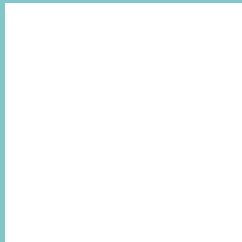
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 76, 23.050, 201.783**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 76, 23.050, 201.783.

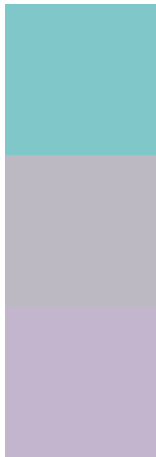


This preview shows how white text looks on a background with the CIELCh color 76, 23.050, 201.783.

# 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**  
76, 23.050, 201.783

**Protanopia**  
76, 4.995, 303.287

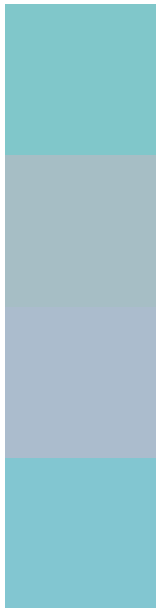
**Deuteranopia**  
76, 14.595, 312.985





**Tritanopia**  
76, 22.440, 219.241

# Trichromacy



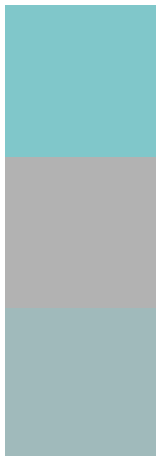
**Original Color**  
76, 23.050, 201.783

**Protanomaly**  
75, 9.160, 223.286

**Deuteranomaly**  
75, 10.773, 257.742

**Tritanomaly**  
76, 22.334, 213.405

# Monochromacy



**Original Color**  
76, 23.050, 201.783

**Achromatopsia**  
73, 0.009, 296.813

**Achromatomaly**  
74, 9.284, 202.086

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 76, 23.050, 201.783 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(128, 199, 202)` looks like.

```
.text, #text, p{  
    color:rgb(128, 199, 202)  
}
```

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(128, 199, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 199, 202) }
```

## Border

The CSS property to change the border of an element to CIELCh 76, 23.050, 201.783 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(128, 199, 202) }
```

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

```
.border{ border-color:rgb(128, 199, 202) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 199, 202)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 199, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 199, 202);  
box-shadow:4px 4px 4px 4px rgb(128, 199,  
202) }
```

# Background

The CSS property to change the background color of an element to CIELCh 76, 23.050, 201.783 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 199, 202) }
```

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

```
.background{ background-color: rgb(128,  
199, 202) }
```

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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