

# Converting Colors

CIELCh(80, 31.733, 215.035)

Have a look what the booklet for  
CIELCh(80, 31.733, 215.035)  
contains.

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# **Color**

**CIELCh(80, 31.702, 215.223)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6AD5E7
RGB	106, 213, 231
RGB Percent	42%, 84%, 91%
CMY	0.5825, 0.1631, 0.0925
CMYK	0.54, 0.08, 0.00, 0.09
HSL	189°, 73%, 66%
HSV	189°, 54%, 91%
XYZ	44.3784, 56.6813, 84.5120
YIQ	183.0590, -69.5500, -17.0860

# Conversions

## Conversions Part 2

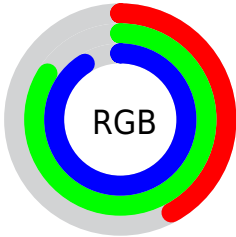
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">106, 164, 231</a>
Decimal	<a href="#">7001575</a>
CIELab	<a href="#">80.00, -25.90, -18.28</a>
CIELCh	<a href="#">80, 31.702, 215.223</a>
Yxy	<a href="#">56.6813, 0.2391, 0.3054</a>
Android (android.graphics.Color)	<a href="#">4285191655 (0xFF6AD5E7)</a>
YUV	<a href="#">183.0590, 23.6349, -67.5807</a>
Hunter-Lab	<a href="#">75.2870, -26.5341, -13.8540</a>

# Details

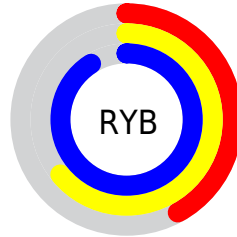
The CIELCh color **80, 31.702, 215.223** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **64, 48.642, 35.658**, and the grayscale version is **75, 0.009, 296.813**.

A 20% lighter version of the original color is **95, 27.824, 197.702**, and **60, 31.694, 214.810** is the 20% darker color. If you saturate the color by 10%, you get **78, 35.226, 216.343**, and if you desaturate by 10%, it is **82, 27.293, 214.410**.

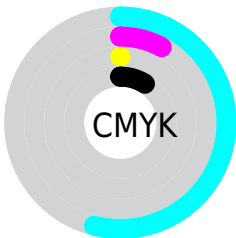
# Distribution



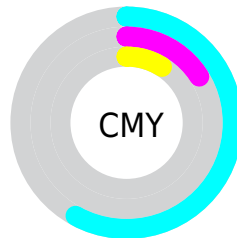
- Red (42%)
- Green (84%)
- Blue (91%)



- Red (42%)
- Yellow (64%)
- Blue (91%)



- Cyan (54%)
- Magenta (8%)
- Yellow (0%)
- Black (9%)




- Cyan (58%)
- Magenta (16%)
- Yellow (9%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 80, 31.702, 215.223 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 80, 31.702, 215.223 by changing the saturation by 10% instead.





 80, 31.702,  
215.223


 80, 31.702,  
215.223


 100, 31.702,  
215.223


 70, 31.702,  
215.223

 60, 31.702,  
215.223

 50, 31.702,  
215.223

 40, 31.702,  
215.223

 30, 31.702,  
215.223

 20, 31.702,  
215.223

 10, 31.702,

215.223

0, 31.702, 215.223

80, 31.702,  
215.223

80, 31.702,  
215.223

78, 35.226,  
216.343

82, 27.293,  
214.410

77, 37.816,  
217.838

84, 22.093,  
213.853

76, 39.479,  
219.769

86, 16.210,  
213.505

74, 40.304,  
222.187

88, 9.763, 213.333

74, 40.533,  
223.829

91, 2.863, 213.416

93, 4.387, 33.089

■ 95, 7.138, 42.179

■ 96, 6.967, 59.007

■ 97, 7.400, 75.182

# Harmonies

# Complementary

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



80, 31.702, 215.223



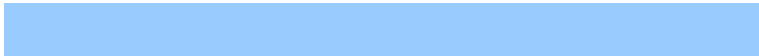
64, 48.642, 35.658

# Rectangle

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



80, 31.702, 215.223



80, 31.702, 265.223



80, 31.702, 35.223



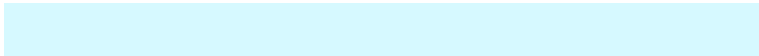
80, 31.702, 85.223

# Sweetspot

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



80, 31.701, 215.221



96, 11.998, 213.355



83, 70.865, 143.442



51, 8.049, 213.384



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



80, 31.701, 215.221



85, 38.343, 216.522



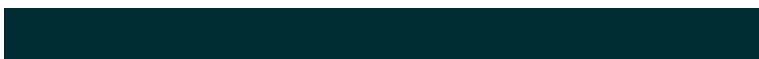
63, 45.259, 278.878



47, 3.984, 213.317



58, 33.396, 223.306



16, 14.135, 218.615



# Inverse Universe

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



64, 69.733, 331.995



65, 87.142, 332.712



78, 46.565, 81.038



45, 7.521, 329.188



41, 79.025, 334.920

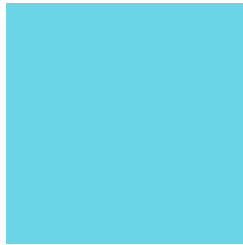


8, 33.736, 333.749



# Previews

## White Background



This preview shows how the CIE LCh color 80, 31.702, 215.223 looks on a white background.

## Color Contrast Check

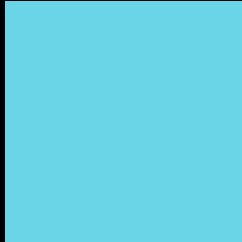
Large Text (above 18pt) WCAG AA × Fail

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 80, 31.702, 215.223 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

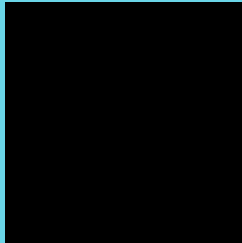
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 80, 31.702, 215.223

## Background



This preview shows how black text looks on a background with the CIELCh color 80, 31.702, 215.223.

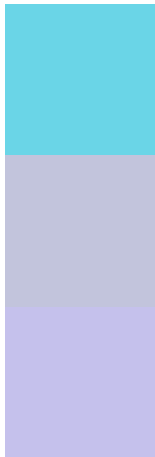


This preview shows how white text looks on a background with the CIELCh color 80, 31.702, 215.223.

# 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

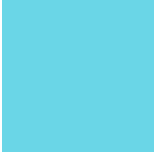


**Original Color**  
80, 31.702, 215.223

**Protanopia**  
80, 12.813, 288.217

**Deuteranopia**  
80, 23.040, 295.551



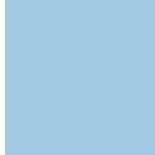


**Tritanopia**  
80, 31.863, 214.081

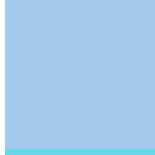
# Trichromacy



**Original Color**  
80, 31.702, 215.223



**Protanomaly**  
79, 17.305, 241.700



**Deuteranomaly**  
79, 21.153, 258.541

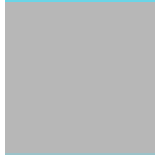


**Tritanomaly**  
80, 31.863, 214.081

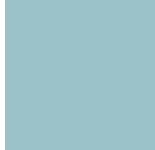
# Monochromacy



**Original Color**  
80, 31.702, 215.223



**Achromatopsia**  
74, 0.009, 296.813



**Achromatomaly**  
76, 13.772, 214.447

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 80, 31.702, 215.223 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(106, 213, 231)` looks like.

```
.text, #text, p{  
    color:rgb(106, 213, 231)  
}
```

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(106, 213, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(106, 213, 231) }
```

## Border

The CSS property to change the border of an element to CIELCh 80, 31.702, 215.223 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(106, 213, 231) }
```

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

```
.border{ border-color:rgb(106, 213, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(106, 213, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(106, 213, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(106, 213, 231);  
box-shadow:4px 4px 4px 4px rgb(106, 213,  
231) }
```

# Background

The CSS property to change the background color of an element to CIELCh 80, 31.702, 215.223 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(106, 213, 231) }
```

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

```
.background{ background-color: rgb(106,  
213, 231) }
```

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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