

# Converting Colors

CIELCh(81, 16.002, 225.849)

Have a look what the booklet for  
CIELCh(81, 16.002, 225.849)  
contains.

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# **Color**

**CIELCh(81, 15.888, 226.611)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A5D0DE
RGB	165, 208, 222
RGB Percent	65%, 82%, 87%
CMY	0.3524, 0.1838, 0.1289
CMYK	0.26, 0.06, 0.00, 0.13
HSL	195°, 46%, 76%
HSV	195°, 26%, 87%
XYZ	51.3354, 58.4711, 77.7822
YIQ	196.7390, -30.1220, -4.7620

# Conversions

## Conversions Part 2

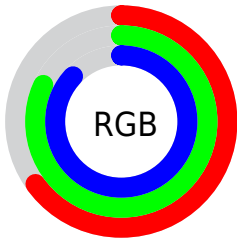
<b>Format</b>	<b>Color</b>
<b>RYB</b>	165, 190, 222
Decimal	10866910
CIELab	81.00, -10.91, -11.55
CIELCh	81, 15.888, 226.611
Yxy	58.4711, 0.2737, 0.3117
Android (android.graphics.Color)	4289056990 (0xFFA5D0DE)
YUV	196.7390, 12.4537, -27.8351
Hunter-Lab	76.4664, -13.9809, -6.7837

# Details

The CIELCh color **81, 15.888, 226.611** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **76, 18.767, 43.988**, and the grayscale version is **79, 0.010, 296.813**.

A 20% lighter version of the original color is **98, 11.478, 198.739**, and **61, 15.837, 226.004** is the 20% darker color. If you saturate the color by 10%, you get **78, 21.322, 227.671**, and if you desaturate by 10%, it is **84, 9.983, 225.814**.

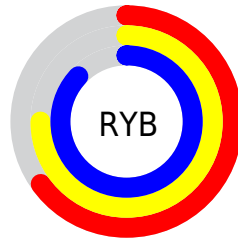
# Distribution



Red (65%)

Green (82%)

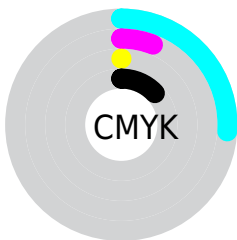
Blue (87%)



Red (65%)

Yellow (75%)

Blue (87%)

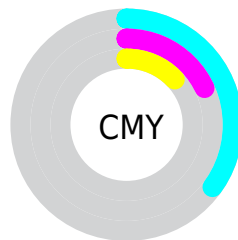


Cyan (26%)

Magenta (6%)

Yellow (0%)

Black (13%)



Cyan (35%)

Magenta (18%)


Yellow (13%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 81, 15.888, 226.611 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 81, 15.888, 226.611 by changing the saturation by 10% instead.





 81, 15.888,  
226.611


 81, 15.888,  
226.611


 100, 15.888,  
226.611


 71, 15.888,  
226.611


 61, 15.888,  
226.611

 51, 15.888,  
226.611

 41, 15.888,  
226.611

 31, 15.888,  
226.611

 21, 15.888,  
226.611

 11, 15.888,

226.611

■ 1, 15.888, 226.611

■ 0, 15.888, 226.611

■ 81, 15.888,  
226.611

■ 81, 15.888,  
226.611

■ 78, 21.322,  
227.671

■ 84, 9.983, 225.814

■ 76, 26.194,  
229.071

■ 87, 3.698, 225.304

■ 90, 2.885, 44.504

■ 73, 30.422,  
230.884

■ 93, 9.697, 44.322

■ 71, 33.945,  
233.201

■ 94, 9.901, 62.993

■ 96, 10.876, 80.914

■ 69, 36.752,

236.114

97, 12.705, 94.706

67, 38.894,  
239.699

98, 15.070,  
104.536

65, 40.510,  
243.976

99, 16.623,  
108.921

64, 41.156,  
245.942

# Harmonies

# Complementary

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



81, 15.888, 226.611



76, 18.767, 43.988

# Rectangle

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



81, 15.888, 226.611



81, 15.888, 276.611



81, 15.888, 46.611



81, 15.888, 96.611

# Sweetspot

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



81, 15.888, 226.605



97, 5.813, 225.388



84, 31.078, 149.795



51, 4.116, 225.458



0, 0.000, 0.000



53, 0.007, 296.813



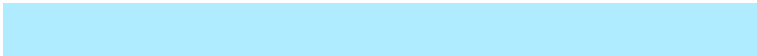


# Same Dimension

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



81, 15.888, 226.605



90, 21.068, 227.163



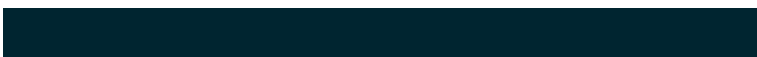
74, 23.056, 279.782



46, 3.707, 225.452



52, 34.439, 245.148



13, 13.699, 236.636



# Inverse Universe

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



74, 30.995, 333.893



81, 41.834, 334.301



83, 22.749, 92.936



44, 6.870, 332.757



39, 72.530, 341.006

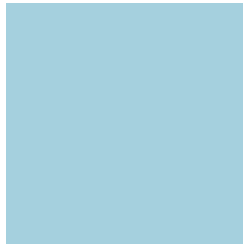


7, 30.436, 338.459



# Previews

## White Background



This preview shows how the CIE LCh color 81, 15.888, 226.611 looks on a white background.

## Color Contrast Check

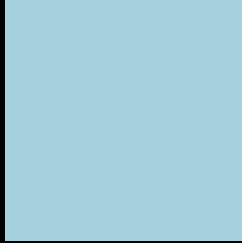
Large Text (above 18pt) WCAG AA × Fail

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 81, 15.888, 226.611 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 81, 15.888, 226.611**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 81, 15.888, 226.611.



This preview shows how white text looks on a background with the CIELCh color 81, 15.888, 226.611.

# 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**  
81, 15.888, 226.611

**Protanopia**  
81, 9.581, 291.031

**Deuteranopia**  
81, 16.786, 308.521





**Tritanopia**  
81, 16.058, 230.725

# Trichromacy



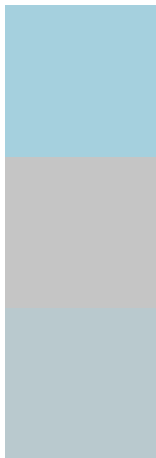
**Original Color**  
81, 15.888, 226.611

**Protanomaly**  
81, 10.307, 260.787

**Deuteranomaly**  
81, 12.939, 280.574

**Tritanomaly**  
81, 15.830, 228.965

# Monochromacy



**Original Color**  
81, 15.888, 226.611

**Achromatopsia**  
80, 0.010, 296.813

**Achromatomaly**  
80, 6.214, 224.548

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 81, 15.888, 226.611 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(165, 208, 222)` looks like.

```
.text, #text, p{  
    color:rgb(165, 208, 222)  
}
```

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(165, 208, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 208, 222) }
```

## Border

The CSS property to change the border of an element to CIELCh 81, 15.888, 226.611 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(165, 208, 222) }
```

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

```
.border{ border-color:rgb(165, 208, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 208, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 208, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 208, 222);  
box-shadow:4px 4px 4px 4px rgb(165, 208,  
222) }
```

# Background

The CSS property to change the background color of an element to CIELCh 81, 15.888, 226.611 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 208, 222) }
```

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

```
.background{ background-color: rgb(165,  
208, 222) }
```

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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