

# Converting Colors

CIELCh(77, 27.830, 212.512)

Have a look what the booklet for  
CIELCh(77, 27.830, 212.512)  
contains.

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# **Color**

**CIELCh(77, 27.806, 212.231)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72CCD9
RGB	114, 204, 217
RGB Percent	45%, 80%, 85%
CMY	0.5546, 0.2016, 0.1506
CMYK	0.48, 0.06, 0.00, 0.15
HSL	188°, 57%, 65%
HSV	188°, 48%, 85%
XYZ	40.8536, 51.5317, 73.1618
YIQ	178.5720, -57.8130, -15.0370

# Conversions

## Conversions Part 2

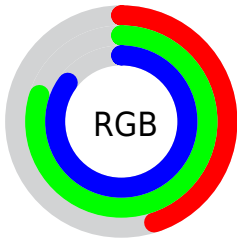
<b>Format</b>	<b>Color</b>
<b>RYB</b>	114, 162, 217
Decimal	7523545
CIELab	77.00, -23.52, -14.83
CIElCh	77, 27.806, 212.231
Yxy	51.5317, 0.2468, 0.3113
Android (android.graphics.Color)	4285713625 (0xFF72CCD9)
YUV	178.5720, 18.9450, -56.6296
Hunter-Lab	71.7856, -24.0396, -10.1767

# Details

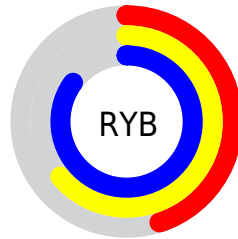
The CIELCh color **77, 27.806, 212.231** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **62, 40.094, 33.553**, and the grayscale version is **73, 0.009, 296.813**.

A 20% lighter version of the original color is **95, 26.210, 197.801**, and **57, 27.843, 211.469** is the 20% darker color. If you saturate the color by 10%, you get **75, 31.739, 212.961**, and if you desaturate by 10%, it is **79, 23.075, 211.737**.

# Distribution



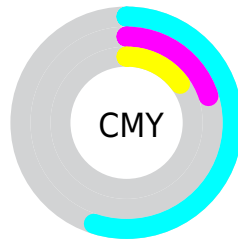
- Red (45%)
- Green (80%)
- Blue (85%)



- Red (45%)
- Yellow (64%)
- Blue (85%)



- Cyan (48%)
- Magenta (6%)
- Yellow (0%)
- Black (15%)




- Cyan (55%)
- Magenta (20%)
- Yellow (15%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 77, 27.806, 212.231 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, 27.806, 212.231 by changing the saturation by 10% instead.





 77, 27.806,  
212.231

 77, 27.806,  
212.231


 100, 27.806,  
212.231


 67, 27.806,  
212.231


 97, 27.806,  
212.231

 57, 27.806,  
212.231

 47, 27.806,  
212.231

 37, 27.806,  
212.231

 27, 27.806,  
212.231

 17, 27.806,  
212.231

 7, 27.806, 212.231

0, 27.806, 212.231

77, 27.806,  
212.231

77, 27.806,  
212.231

75, 31.739,  
212.961

79, 23.075,  
211.737

74, 34.797,  
213.983

81, 17.648,  
211.444

73, 36.948,  
215.349

83, 11.637,  
211.317

72, 38.216,  
217.110

85, 5.152, 211.359

71, 38.727,  
219.292

87, 1.703, 30.975

90, 8.838, 31.405

71, 38.805,  
219.855

91, 12.387, 34.905

■ 92, 11.880, 42.582

■ 93, 11.607, 50.772

# Harmonies

# Complementary

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



77, 27.806, 212.231



62, 40.094, 33.553

# Rectangle

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



77, 27.806, 212.231



77, 27.806, 262.231



77, 27.806, 32.231



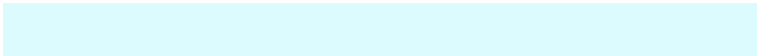
77, 27.806, 82.231

# Sweetspot

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



77, 27.806, 212.229



96, 10.703, 211.309



79, 60.501, 143.767



51, 7.341, 211.312



0, 0.000, 0.000



53, 0.007, 296.813



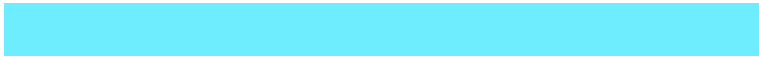


# Same Dimension

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



77, 27.806, 212.229



87, 35.889, 212.958



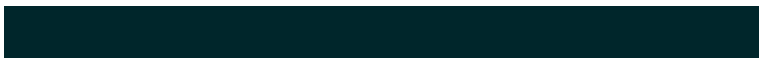
63, 36.771, 275.682



44, 3.816, 211.333



57, 32.545, 219.426



13, 12.941, 214.708



# Inverse Universe

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



62, 59.854, 330.938



68, 79.790, 331.535



74, 38.283, 80.538



42, 7.195, 328.607



39, 77.592, 333.950

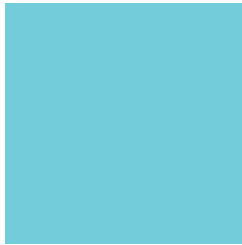


6, 30.044, 332.619



# Previews

## White Background



This preview shows how the CIELCh color 77, 27.806, 212.231 looks on a white background.

## Color Contrast Check

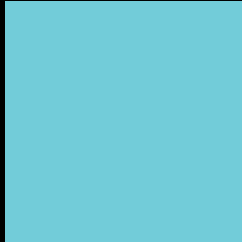
Large Text (above 18pt) WCAG AA × Fail

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 77, 27.806, 212.231 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, 27.806, 212.231**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 77, 27.806, 212.231.



This preview shows how white text looks on a background with the CIELCh color 77, 27.806, 212.231.

# 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, 27.806, 212.231

**Protanopia**  
77, 10.220, 289.142

**Deuteranopia**  
77, 19.578, 299.018





**Tritanopia**  
77, 27.597, 217.151

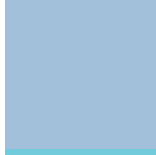
# Trichromacy



**Original Color**  
77, 27.806, 212.231



**Protanomaly**  
77, 14.127, 236.444



**Deuteranomaly**  
76, 17.143, 257.280

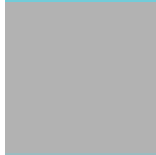


**Tritanomaly**  
77, 27.740, 215.836

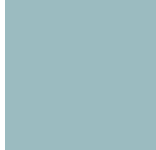
# Monochromacy



**Original Color**  
77, 27.806, 212.231



**Achromatopsia**  
73, 0.009, 296.813



**Achromatomaly**  
74, 11.445, 212.358

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 77, 27.806, 212.231 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(114, 204, 217)` looks like.

```
.text, #text, p{  
    color:rgb(114, 204, 217)  
}
```

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(114, 204, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 204, 217) }
```

## Border

The CSS property to change the border of an element to CIELCh 77, 27.806, 212.231 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(114, 204, 217) }
```

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

```
.border{ border-color:rgb(114, 204, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 204, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(114, 204, 217); -webkit-box-shadow:4px 4px 4px 4px rgb(114, 204, 217); box-shadow:4px 4px 4px 4px rgb(114, 204, 217) }
```

# Background

The CSS property to change the background color of an element to CIELCh 77, 27.806, 212.231 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 204, 217) }
```

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

```
.background{ background-color: rgb(114,  
204, 217) }
```

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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