

# Converting Colors

CIELCh(70, 46.549, 276.830)

Have a look what the booklet for  
CIELCh(70, 46.549, 276.830)  
contains.

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**Color**

**CIELCh(70, 46.744, 277.132)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78ACFF
RGB	120, 172, 255
RGB Percent	47%, 67%, 100%
CMY	0.5291, 0.3252, 0.0000
CMYK	0.53, 0.33, 0.00, 0.00
HSL	217°, 100%, 74%
HSV	217°, 53%, 100%
XYZ	40.5789, 40.7494, 100.3895
YIQ	165.9140, -57.6350, 14.7890

# Conversions

## Conversions Part 2

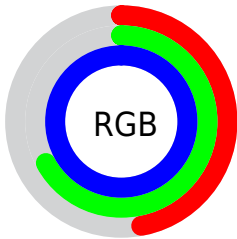
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">120, 158, 255</a>
Decimal	<a href="#">7908607</a>
CIELab	<a href="#">70.00, 5.80, -46.38</a>
CIElCh	<a href="#">70, 46.744, 277.132</a>
Yxy	<a href="#">40.7494, 0.2233, 0.2242</a>
Android (android.graphics.Color)	<a href="#">4286098687 (0xFF78ACFF)</a>
YUV	<a href="#">165.9140, 43.9194, -40.2666</a>
Hunter-Lab	<a href="#">63.8353, 1.7573, -48.5567</a>

# Details

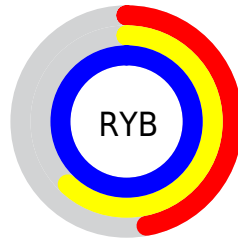
The CIELCh color **70, 46.744, 277.132** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **85, 48.827, 79.513**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 20.711, 243.907**, and **50, 46.905, 277.334** is the 20% darker color. If you saturate the color by 10%, you get **65, 55.850, 280.205**, and if you desaturate by 10%, it is **76, 37.705, 274.436**.

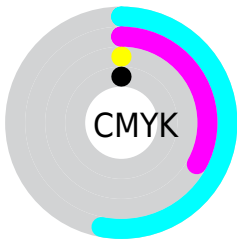
# Distribution



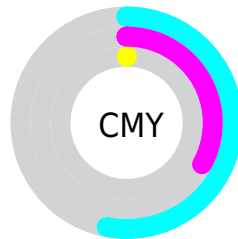
- Red (47%)
- Green (67%)
- Blue (100%)



- Red (47%)
- Yellow (62%)
- Blue (100%)



- Cyan (53%)
- Magenta (33%)
- Yellow (0%)
- Black (0%)




- Cyan (53%)
- Magenta (33%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 70, 46.744, 277.132 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 70, 46.744, 277.132 by changing the saturation by 10% instead.





 70, 46.744,  
277.132


 70, 46.744,  
277.132


 100, 46.744,  
277.132


 60, 46.744,  
277.132


 90, 46.744,  
277.132

 50, 46.744,  
277.132

 40, 46.744,  
277.132

 30, 46.744,  
277.132

 20, 46.744,  
277.132

 10, 46.744,  
277.132

 0, 46.744, 277.132

70, 46.744,  
277.132

70, 46.744,  
277.132

65, 55.850,  
280.205

76, 37.705,  
274.436

59, 65.185,  
283.701

81, 28.797,  
272.148

54, 74.764,  
287.518

87, 19.966,  
270.204

50, 84.573,  
291.490

93, 11.207,  
268.558

47, 91.597,  
294.218

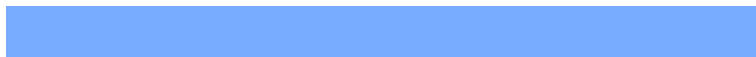
98, 2.524, 267.244

100, 0.012,  
296.813

# Harmonies

# Complementary

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



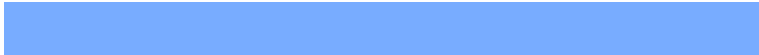
70, 46.744, 277.132



85, 48.827, 79.513

# Rectangle

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



70, 46.744, 277.132



70, 46.744, 327.132



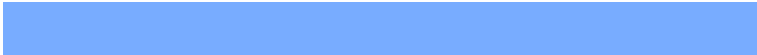
70, 46.744, 97.132



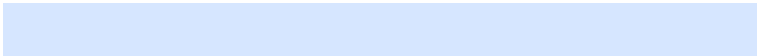
70, 46.744, 147.132

# Sweetspot

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



70, 46.710, 277.113



91, 13.902, 269.036



92, 51.506, 163.465



47, 9.394, 269.369



0, 0.000, 0.000



53, 0.007, 296.813

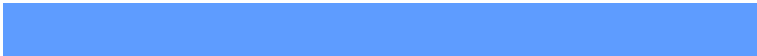


# Same Dimension

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



70, 46.710, 277.113



65, 55.930, 280.234



58, 76.413, 300.595



50, 4.928, 268.061



35, 72.424, 293.520



9, 29.072, 287.929





# Inverse Universe

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



68, 56.601, 357.229



63, 66.033, 359.510



97, 65.941, 109.891



50, 5.936, 351.154



41, 68.532, 13.233

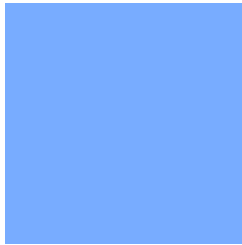


10, 31.284, 6.041



# Previews

## White Background



This preview shows how the CIELCh color 70, 46.744, 277.132 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 70, 46.744, 277.132 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

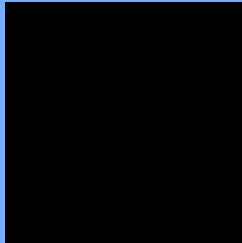
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

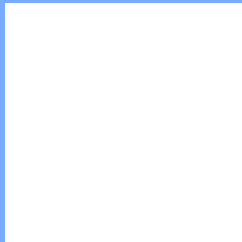
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 70, 46.744, 277.132**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 70, 46.744, 277.132.



This preview shows how white text looks on a background with the CIELCh color 70, 46.744, 277.132.

# 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

70, 46.744, 277.132

### Protanopia

70, 45.713, 285.155

### Deuteranopia

70, 47.149, 281.733



**Tritanopia**  
70, 26.198, 216.038



# Trichromacy



**Original Color**  
70, 46.744, 277.132

**Protanomaly**  
70, 46.019, 282.228

**Deuteranomaly**  
70, 46.822, 279.980

**Tritanomaly**  
70, 29.464, 246.829

# Monochromacy



**Original Color**  
70, 46.744, 277.132

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
68, 17.522, 270.256

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 46.744, 277.132 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(120, 172, 255)` looks like.

```
.text, #text, p{  
    color:rgb(120, 172, 255)  
}
```

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(120, 172, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 172, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 46.744, 277.132 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(120, 172, 255) }
```

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

```
.border{ border-color:rgb(120, 172, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 172, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 172, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 172, 255);  
box-shadow:4px 4px 4px 4px rgb(120, 172,  
255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 46.744, 277.132 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 172, 255) }
```

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

```
.background{ background-color: rgb(120,  
172, 255) }
```

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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