

# Converting Colors

CIELCh(70, 45.647, 277.495)

Have a look what the booklet for  
CIELCh(70, 45.647, 277.495)  
contains.

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# **Color**

**CIELCh(70, 45.566, 277.374)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BACFD
RGB	123, 172, 253
RGB Percent	48%, 67%, 99%
CMY	0.5181, 0.3259, 0.0083
CMYK	0.51, 0.32, 0.00, 0.01
HSL	217°, 97%, 74%
HSV	217°, 51%, 99%
XYZ	40.5933, 40.7494, 98.5547
YIQ	166.5830, -55.2050, 14.8030

# Conversions

## Conversions Part 2

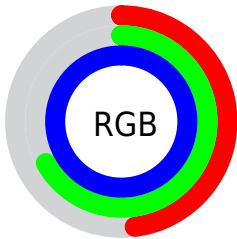
Format	Color
R <sub>YB</sub>	123, 159, 253
Decimal	8105213
CIE Lab	70.00, 5.85, -45.19
CIE LCh	70, 45.566, 277.374
Yxy	40.7494, 0.2256, 0.2265
Android (android.graphics.Color)	4286295293 (0xFF7BACFD)
YUV	166.5830, 42.6036, -38.2223
Hunter-Lab	63.8353, 1.7977, -46.8526

# Details

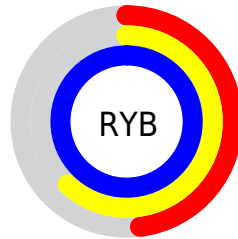
The CIELCh color **70, 45.566, 277.374** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **85, 47.280, 80.478**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 20.099, 245.712**, and **50, 45.688, 277.383** is the 20% darker color. If you saturate the color by 10%, you get **65, 54.771, 280.384**, and if you desaturate by 10%, it is **76, 36.505, 274.773**.

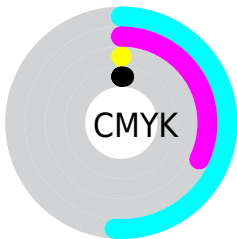
# Distribution



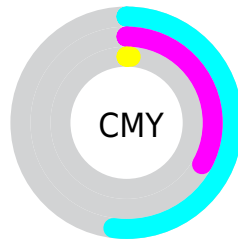
- Red (48%)
- Green (67%)
- Blue (99%)



- Red (48%)
- Yellow (62%)
- Blue (99%)



- Cyan (51%)
- Magenta (32%)
- Yellow (0%)
- Black (1%)




- Cyan (52%)
- Magenta (33%)
- Yellow (1%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 45.566, 277.374 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, 45.566, 277.374 by changing the saturation by 10% instead.





 70, 45.566,  
277.374


 70, 45.566,  
277.374


 100, 45.566,  
277.374


 60, 45.566,  
277.374


 90, 45.566,  
277.374

 50, 45.566,  
277.374

 40, 45.566,  
277.374

 30, 45.566,  
277.374

 20, 45.566,  
277.374

 10, 45.566,  
277.374

 0, 45.566, 277.374

70, 45.566,  
277.374

70, 45.566,  
277.374

65, 54.771,  
280.384

76, 36.505,  
274.773

59, 64.176,  
283.796

81, 27.553,  
272.550

54, 73.828,  
287.539

87, 18.690,  
270.661

50, 83.716,  
291.457

93, 9.913, 269.063

46, 92.301,  
294.738

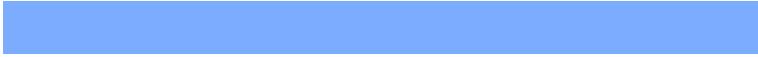
98, 1.224, 267.916

100, 1.063,  
110.026

# Harmonies

# Complementary

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



70, 45.566, 277.374



85, 47.280, 80.478

# Rectangle

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



70, 45.566, 277.374



70, 45.566, 327.374



70, 45.566, 97.374



70, 45.566, 147.374

# Sweetspot

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



70, 45.565, 277.374



91, 13.146, 269.606



91, 49.175, 164.714



47, 8.978, 269.942



0, 0.000, 0.000



53, 0.007, 296.813

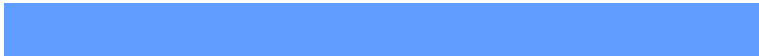


# Same Dimension

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



70, 45.565, 277.374



65, 55.700, 280.585



59, 73.532, 300.770



50, 4.971, 268.791



35, 73.479, 294.067



9, 29.486, 288.548





# Inverse Universe

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



68, 54.561, 357.512



64, 65.017, 359.878



96, 63.905, 110.769



50, 5.907, 351.683



41, 68.672, 14.039



10, 31.282, 6.754



# Previews

## White Background



This preview shows how the CIELCh color 70, 45.566, 277.374 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 70, 45.566, 277.374 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

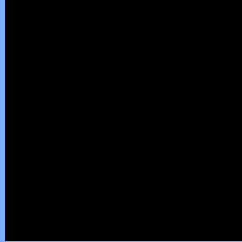
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

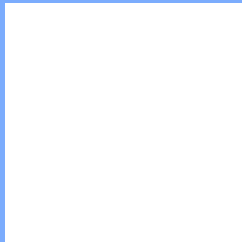
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 70, 45.566, 277.374

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 45.566, 277.374.



This preview shows how white text looks on a background with the CIELCh color 70, 45.566, 277.374.

# 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

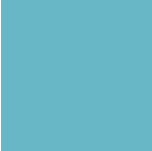
70, 45.566, 277.374

### Protanopia

70, 44.618, 285.120

### Deuteranopia

70, 46.585, 282.148



**Tritanopia**  
70, 25.306, 216.772



# Trichromacy



**Original Color**  
70, 45.566, 277.374

**Protanomaly**  
70, 44.886, 282.409

**Deuteranomaly**  
70, 46.251, 280.360

**Tritanomaly**  
70, 28.505, 247.350

# Monochromacy



**Original Color**  
70, 45.566, 277.374

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
68, 17.415, 271.273

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 45.566, 277.374 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(123, 172, 253)` looks like.

```
.text, #text, p{  
    color:rgb(123, 172, 253)  
}
```

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(123, 172, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 172, 253) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 45.566, 277.374 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(123, 172, 253) }
```

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

```
.border{ border-color:rgb(123, 172, 253) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 172, 253)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 172, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 172, 253);  
box-shadow:4px 4px 4px 4px rgb(123, 172,  
253) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 45.566, 277.374 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 172, 253) }
```

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

```
.background{ background-color: rgb(123,  
172, 253) }
```

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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