

# Converting Colors

CIELCh(73, 76.847, 286.999)

Have a look what the booklet for  
CIELCh(73, 76.847, 286.999)  
contains.

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# **Color**

**CIELCh(70, 46.731, 274.405)**

# Conversions

## Conversions Part 1

Format	Color
Hex	70ADFF
RGB	112, 173, 255
RGB Percent	44%, 68%, 100%
CMY	0.5591, 0.3201, 0.0000
CMYK	0.56, 0.32, 0.00, 0.00
HSL	214°, 100%, 72%
HSV	214°, 56%, 100%
XYZ	39.8671, 40.7494, 100.7157
YIQ	164.1090, -62.6780, 12.5700

# Conversions

## Conversions Part 2

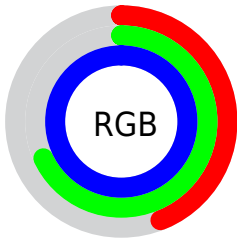
Format	Color
R <sub>YB</sub>	112, 155, 255
Decimal	7384575
CIE <sub>Lab</sub>	70.00, 3.59, -46.59
CIE <sub>LCh</sub>	70, 46.731, 274.405
Y <sub>xy</sub>	40.7494, 0.2199, 0.2247
Android (android.graphics.Color)	4285574655 (0xFF70ADFF)
YUV	164.1090, 44.8093, -45.6996
Hunter-Lab	63.8353, -0.2330, -48.8597

# Details

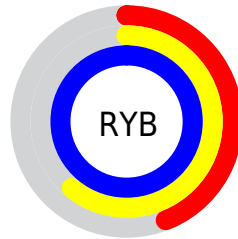
The CIELCh color **70, 46.731, 274.405** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **82, 50.706, 75.229**, and the grayscale version is **67, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 22.091, 238.479**, and **50, 46.868, 274.520** is the 20% darker color. If you saturate the color by 10%, you get **65, 54.927, 277.581**, and if you desaturate by 10%, it is **75, 38.190, 271.403**.

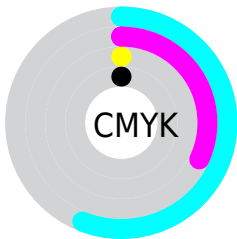
# Distribution



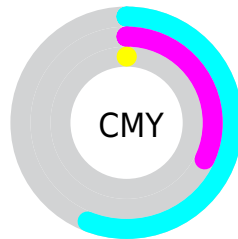
- Red (44%)
- Green (68%)
- Blue (100%)



- Red (44%)
- Yellow (61%)
- Blue (100%)



- Cyan (56%)
- Magenta (32%)
- Yellow (0%)
- Black (0%)




- Cyan (56%)
- Magenta (32%)
- Yellow (0%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 46.731, 274.405 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, 46.731, 274.405 by changing the saturation by 10% instead.





 70, 46.731,  
274.405


 70, 46.731,  
274.405


 100, 46.731,  
274.405


 60, 46.731,  
274.405


 90, 46.731,  
274.405

 50, 46.731,  
274.405

 40, 46.731,  
274.405

 30, 46.731,  
274.405

 20, 46.731,  
274.405

 10, 46.731,  
274.405

 0, 46.731, 274.405

70, 46.731,  
274.405

70, 46.731,  
274.405

65, 54.927,  
277.581

75, 38.190,  
271.403

60, 63.453,  
281.318

80, 29.867,  
268.959

56, 72.181,  
285.386

86, 21.543,  
266.888

51, 81.144,  
289.599

91, 13.219,  
265.140

50, 84.877,  
291.254

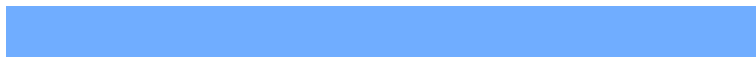
97, 4.908, 263.694

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.



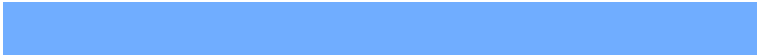
70, 46.731, 274.405



82, 50.706, 75.229

# Rectangle

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



70, 46.731, 274.405



70, 46.731, 324.405



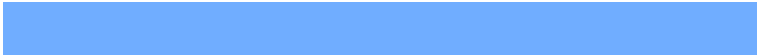
70, 46.731, 94.405



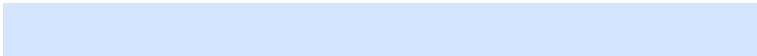
70, 46.731, 144.405

# Sweetspot

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



70, 46.529, 274.269



91, 14.127, 265.317



91, 55.622, 161.044



47, 9.451, 265.650



0, 0.000, 0.000

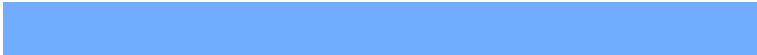


53, 0.007, 296.813

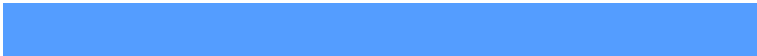


# Same Dimension

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



70, 46.529, 274.269



64, 55.850, 277.969



55, 81.194, 300.325



50, 4.722, 264.175



37, 67.118, 290.503



10, 27.025, 284.549





# Inverse Universe

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



67, 60.431, 354.889



62, 70.147, 357.403



97, 69.081, 108.111



50, 6.090, 348.559



41, 68.074, 9.133



10, 31.379, 2.466



# Previews

## White Background



This preview shows how the CIE LCh color 70, 46.731, 274.405 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, 46.731, 274.405 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

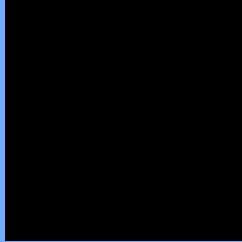
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

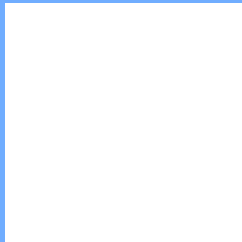
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 70, 46.731, 274.405

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 46.731, 274.405.



This preview shows how white text looks on a background with the CIELCh color 70, 46.731, 274.405.

# 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





**Tritanopia**  
70, 28.315, 214.461



# Trichromacy



**Original Color**  
70, 46.731, 274.405

**Protanomaly**  
70, 46.108, 281.612

**Deuteranomaly**  
70, 47.023, 278.846

**Tritanomaly**  
70, 30.513, 243.022

# Monochromacy



**Original Color**  
70, 46.731, 274.405

**Achromatopsia**  
67, 0.008, 296.813

**Achromatomaly**  
68, 17.887, 267.324

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 46.731, 274.405 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(112, 173, 255)` looks like.

```
.text, #text, p{  
    color:rgb(112, 173, 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(112, 173, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 173, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 46.731, 274.405 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(112, 173, 255) }
```

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

```
.border{ border-color:rgb(112, 173, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 173, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 173, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 173, 255);  
box-shadow:4px 4px 4px 4px rgb(112, 173,  
255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 46.731, 274.405 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 173, 255) }
```

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

```
.background{ background-color: rgb(112,  
173, 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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