

# Converting Colors

CIELCh(67, 49.288, 266.576)

Have a look what the booklet for  
CIELCh(67, 49.288, 266.576)  
contains.

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# **Color**

**CIELCh(67, 49.286, 266.601)**

# Conversions

## Conversions Part 1

Format	Color
Hex	42A9FB
RGB	66, 169, 251
RGB Percent	26%, 66%, 98%
CMY	0.7395, 0.3362, 0.0145
CMYK	0.74, 0.33, 0.00, 0.01
HSL	207°, 96%, 62%
HSV	207°, 74%, 99%
XYZ	33.9714, 36.6320, 96.7891
YIQ	147.5510, -87.7100, 3.6660

# Conversions

## Conversions Part 2

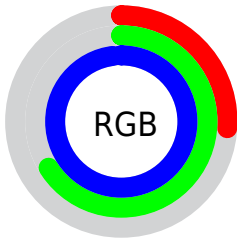
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	66, 132, 251
Decimal	4368891
CIE Lab	67.00, -2.92, -49.20
CIE LCh	67, 49.286, 266.601
Yxy	36.6320, 0.2029, 0.2188
Android (android.graphics.Color)	4282558971 (0xFF42A9FB)
YUV	147.5510, 51.0004, -71.5202
Hunter-Lab	60.5244, -5.7283, -52.4481

# Details

The CIELCh color **67, 49.286, 266.601** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **71, 66.397, 60.732**, and the grayscale version is **61, 0.008, 296.813**.

A 20% lighter version of the original color is **85, 29.758, 231.528**, and **48, 47.795, 272.104** is the 20% darker color. If you saturate the color by 10%, you get **63, 55.094, 271.010**, and if you desaturate by 10%, it is **71, 43.359, 262.728**.

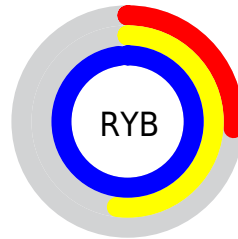
# Distribution



Red (26%)

Green (66%)

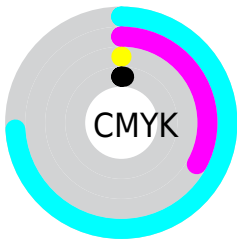
Blue (98%)



Red (26%)

Yellow (52%)

Blue (98%)

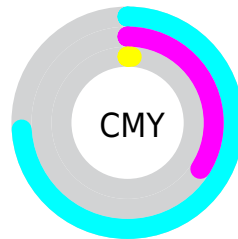


Cyan (74%)

Magenta (33%)

Yellow (0%)

Black (1%)



Cyan (74%)

Magenta (34%)


Yellow (1%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 67, 49.286, 266.601 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 67, 49.286, 266.601 by changing the saturation by 10% instead.




 67, 49.286,  
266.601


 67, 49.286,  
266.601


 100, 49.286,  
266.601


 57, 49.286,  
266.601


 87, 49.286,  
266.601

 47, 49.286,  
266.601

 97, 49.286,  
266.601

 37, 49.286,  
266.601

 27, 49.286,  
266.601

 17, 49.286,  
266.601

 7, 49.286, 266.601

 0, 49.286, 266.601

67, 49.286,  
266.601

67, 49.286,  
266.601

63, 55.094,  
271.010

71, 43.359,  
262.728

60, 60.938,  
275.822

75, 37.212,  
259.418

58, 64.811,  
278.954

79, 30.791,  
256.641

84, 24.094,  
254.335

88, 17.144,  
252.430

93, 9.982, 250.865

97, 2.653, 249.682

100, 1.868,  
109.997



# Harmonies

# Complementary

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



67, 49.286, 266.601



71, 66.397, 60.732

# Rectangle

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



67, 49.286, 266.601



67, 49.286, 316.601



67, 49.286, 86.601



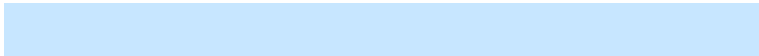
67, 49.286, 136.601

# Sweetspot

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



67, 49.285, 266.602



90, 16.227, 252.167



88, 77.535, 151.184



47, 10.866, 252.634



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



67, 49.285, 266.602



63, 58.355, 273.138



44, 100.773, 300.750



50, 4.182, 250.320



44, 51.432, 278.040



13, 20.767, 270.708



# Inverse Universe

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



59, 77.597, 349.754



57, 84.521, 353.466



93, 80.418, 100.047



49, 6.523, 341.454



41, 68.506, 356.821

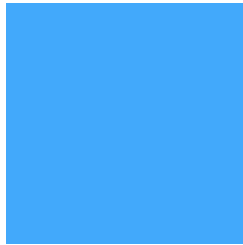


10, 31.698, 351.902



# Previews

## White Background



This preview shows how the CIELCh color 67, 49.286, 266.601 looks on a white background.

## Color Contrast Check

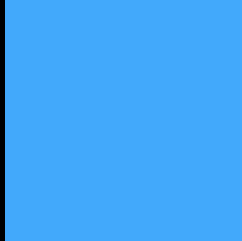
Large Text (above 18pt) WCAG AA × Fail

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 67, 49.286, 266.601 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

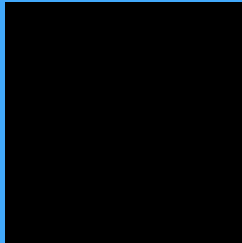
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

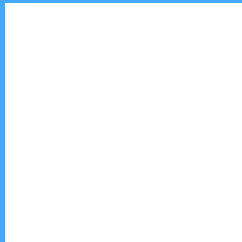
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 67, 49.286, 266.601**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 67, 49.286, 266.601.

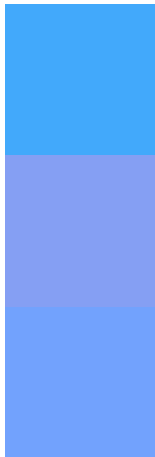


This preview shows how white text looks on a background with the CIELCh color 67, 49.286, 266.601.

# 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

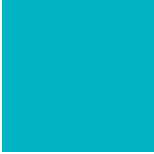


**Original Color**  
67, 49.286, 266.601

**Protanopia**  
67, 46.670, 285.689

**Deuteranopia**  
67, 51.073, 280.891





**Tritanopia**  
67, 37.239, 208.804

# Trichromacy



**Original Color**  
67, 49.286, 266.601

**Protanomaly**  
67, 47.214, 277.149

**Deuteranomaly**  
67, 49.887, 275.004

**Tritanomaly**  
67, 37.668, 232.692

# Monochromacy



**Original Color**  
67, 49.286, 266.601

**Achromatopsia**  
61, 0.008, 296.813

**Achromatomaly**  
63, 20.437, 254.523

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 67, 49.286, 266.601 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(66, 169, 251)` looks like.

```
.text, #text, p{  
    color:rgb(66, 169, 251)  
}
```

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(66, 169, 251) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 169, 251) }
```

## Border

The CSS property to change the border of an element to CIELCh 67, 49.286, 266.601 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(66, 169, 251) }
```

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

```
.border{ border-color:rgb(66, 169, 251) }
```

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

Here you see how a box with a 4 pixel rgb(66, 169, 251) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 169, 251); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 169, 251);  
box-shadow:4px 4px 4px 4px rgb(66, 169,  
251) }
```

# Background

The CSS property to change the background color of an element to CIELCh 67, 49.286, 266.601 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 169, 251) }
```

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

```
.background{ background-color: rgb(66, 169,  
251) }
```

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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