

# Converting Colors

CIELCh(49, 65.780, 126.431)

Have a look what the booklet for  
CIELCh(49, 65.780, 126.431)  
contains.

<b>CIELCh(49, 65.517, 126.386)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

**Color**

**CIELCh(49, 65.517, 126.386)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	468300
RGB	70, 131, 0
RGB Percent	27%, 51%, 0%
CMY	0.7247, 0.4855, 0.9988
CMYK	0.46, 0.00, 1.00, 0.49
HSL	88°, 100%, 26%
HSV	88°, 100%, 51%
XYZ	10.6840, 17.5941, 2.8418
YIQ	97.8270, 5.6950, -53.6730

# Conversions

## Conversions Part 2

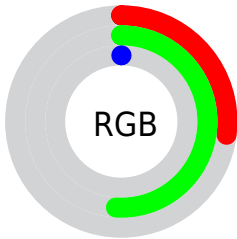
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 131, 61
Decimal	4621056
CIELab	49.00, -38.87, 52.74
CIELCh	49, 65.517, 126.386
Yxy	17.5941, 0.3433, 0.5654
Android (android.graphics.Color)	4282811136 (0xFF468300)
YUV	97.8270, -48.2287, -24.4043
Hunter-Lab	41.9453, -27.9380, 25.3448

# Details

The CIELCh color  $49, 65.517, 126.386$  is a dark color, and the websafe version is hex  $669900$ . A complement of this color would be  $19, 76.391, 311.474$ , and the grayscale version is  $42, 0.006, 296.813$ .

A 20% lighter version of the original color is  $69, 65.743, 126.348$ , and  $29, 51.448, 135.094$  is the 20% darker color. If you saturate the color by 10%, you get  $49, 65.596, 126.402$ , and if you desaturate by 10%, it is  $49, 62.261, 125.662$ .

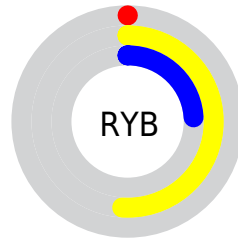
# Distribution



Red (27%)

Green (51%)

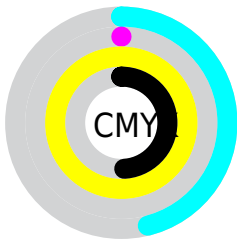
Blue (0%)



Red (0%)

Yellow (51%)

Blue (24%)

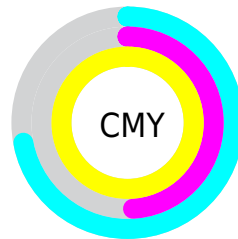


Cyan (46%)

Magenta (0%)

Yellow (100%)

Black (49%)



Cyan (72%)

Magenta (49%)

Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 65.517, 126.386 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 49, 65.517, 126.386 by changing the saturation by 10% instead.




 49, 65.517,  
126.386


 49, 65.517,  
126.386

 100, 65.517,  
126.386


 39, 65.517,  
126.386

 69, 65.517,  
126.386


 29, 65.517,  
126.386

 79, 65.517,  
126.386

 19, 65.517,  
126.386

 89, 65.517,  
126.386

 9, 65.517, 126.386

 99, 65.517,  
126.386

 0, 65.517, 126.386

 49, 65.517,

 49, 65.517,

126.386

126.386

■ 49, 65.596,  
126.402

■ 49, 62.261,  
125.662

■ 50, 57.996,  
125.190

■ 50, 52.473,  
125.099

■ 51, 46.008,  
125.274

■ 51, 38.900,  
125.614

■ 52, 31.379,  
126.044

■ 52, 23.610,  
126.513

■ 53, 15.708,  
126.989



# Harmonies

# Complementary

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



49, 65.517, 126.386



19, 76.391, 311.474

# Rectangle

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



49, 65.517, 126.386



49, 65.517, 176.386



49, 65.517, 306.386



49, 65.517, 356.386

# Sweetspot

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



49, 65.517, 126.387



67, 29.527, 126.468



34, 52.717, 57.852



35, 20.270, 126.297



86, 0.010, 296.813



37, 0.005, 296.813





# Same Dimension

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



49, 65.517, 126.387



63, 79.847, 126.779



47, 72.760, 135.719



28, 4.520, 127.484



49, 65.175, 126.388



1, 1.084, 127.872



# Inverse Universe

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



19, 76.391, 311.474



26, 93.048, 311.217



29, 70.689, 326.326



26, 4.582, 308.269



18, 76.021, 311.483



0, 1.084, 307.870



# Previews

## White Background



This preview shows how the CIELCh color 49, 65.517, 126.386 looks on a white 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 × Fail

# Black Background



This preview shows how the CIELCh color 49, 65.517, 126.386 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 × Fail

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

**CIELCh 49, 65.517, 126.386**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 49, 65.517, 126.386.



This preview shows how white text looks on a background with the CIELCh color 49, 65.517, 126.386.

# 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

49, 65.517, 126.386


### Protanopia

49, 54.701, 95.139

### Deuteranopia

49, 48.624, 82.542





**Tritanopia**  
49, 13.555, 224.106

# Trichromacy



**Original Color**  
49, 65.517, 126.386

**Protanomaly**  
48, 56.583, 109.130

**Deuteranomaly**  
48, 51.153, 103.317

**Tritanomaly**  
48, 29.971, 143.842

# Monochromacy



**Original Color**  
49, 65.517, 126.386

**Achromatopsia**  
42, 0.006, 296.813

**Achromatomaly**  
44, 29.673, 125.622

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 65.517, 126.386 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(70, 131, 0)` looks like.

```
.text, #text, p{  
    color:rgb(70, 131, 0)  
}
```

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(70, 131, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 131, 0) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 65.517, 126.386 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(70, 131, 0) }
```

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

```
.border{ border-color:rgb(70, 131, 0) }
```

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

Here you see how a box with a 4 pixel rgb(70, 131, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 131, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 131, 0);  
box-shadow:4px 4px 4px 4px rgb(70, 131, 0)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 65.517, 126.386 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 131, 0) }
```

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

```
.background{ background-color: rgb(70, 131,  
0) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor