

# Converting Colors

CIELCh(49, 52.794, 277.813)

Have a look what the booklet for  
CIELCh(49, 52.794, 277.813)  
contains.

<b>CIELCh(49, 52.448, 277.548)</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, 52.448, 277.548)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	1E76CD
RGB	30, 118, 205
RGB Percent	12%, 46%, 80%
CMY	0.8836, 0.5378, 0.1967
CMYK	0.86, 0.42, 0.00, 0.20
HSL	210°, 75%, 46%
HSV	210°, 86%, 80%
XYZ	17.9868, 17.5941, 60.1033
YIQ	101.6060, -80.3750, 8.4010

# Conversions

## Conversions Part 2

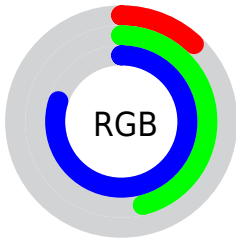
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	30, 89, 205
Decimal	1996493
CIE <sub>Lab</sub>	49.00, 6.89, -51.99
CIE <sub>LCh</sub>	49, 52.448, 277.548
Yxy	17.5941, 0.1880, 0.1839
Android (android.graphics.Color)	4280186573 (0xFF1E76CD)
YUV	101.6060, 50.9732, -62.7985
Hunter-Lab	41.9453, 3.1395, -55.5948

# Details

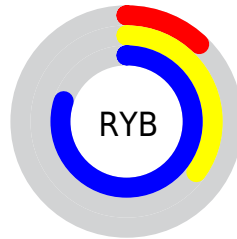
The CIELCh color **49, 52.448, 277.548** is a dark color, and the websafe version is hex **0066CC**. The color can be described as dark washed azure. A complement of this color would be **58, 64.788, 63.573**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **69, 48.438, 275.103**, and **31, 50.406, 285.806** is the 20% darker color. If you saturate the color by 10%, you get **46, 58.454, 282.096**, and if you desaturate by 10%, it is **52, 46.574, 273.287**.

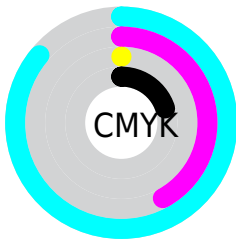
# Distribution



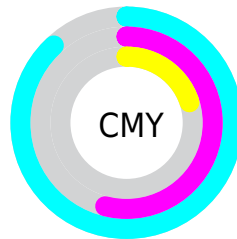
- Red (12%)
- Green (46%)
- Blue (80%)



- Red (12%)
- Yellow (35%)
- Blue (80%)



- Cyan (86%)
- Magenta (42%)
- Yellow (0%)
- Black (20%)



- Cyan (88%)
- Magenta (54%)
- Yellow (20%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 52.448, 277.548 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, 52.448, 277.548 by changing the saturation by 10% instead.




 49, 52.448,  
277.548

 49, 52.448,  
277.548


 100, 52.448,  
277.548

 39, 52.448,  
277.548

 69, 52.448,  
277.548

 29, 52.448,  
277.548

 79, 52.448,  
277.548

 19, 52.448,  
277.548

 89, 52.448,  
277.548

 9, 52.448, 277.548

 99, 52.448,  
277.548

 0, 52.448, 277.548

 49, 52.448,

 49, 52.448,

277.548

■ 46, 58.454,  
282.096

■ 44, 61.232,  
284.071

277.548

■ 52, 46.574,  
273.287

■ 56, 40.731,  
269.459

■ 60, 34.833,  
266.127

■ 64, 28.824,  
263.284

■ 68, 22.686,  
260.886

■ 72, 16.420,  
258.876

■ 76, 10.048,  
257.197

■ 80, 3.593, 255.838



# Harmonies

# Complementary

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



49, 52.448, 277.548



58, 64.788, 63.573

# Rectangle

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



49, 52.448, 277.548



49, 52.448, 327.548



49, 52.448, 97.548



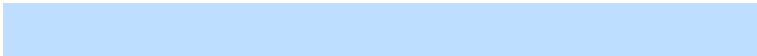
49, 52.448, 147.548

# Sweetspot

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



49, 52.447, 277.549



87, 19.976, 259.027



73, 70.007, 151.334



45, 13.507, 259.702



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



49, 52.447, 277.549



55, 73.150, 284.693



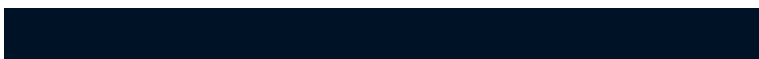
29, 103.226, 304.460



41, 3.674, 256.319



36, 51.538, 283.329



6, 15.082, 270.873



# Inverse Universe

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



46, 69.466, 356.610



55, 84.668, 2.608



79, 77.410, 102.235



40, 5.324, 344.200



35, 61.465, 1.295



4, 19.954, 353.314



# Previews

## White Background



This preview shows how the CIE LCh color 49, 52.448, 277.548 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 CIE LCh color 49, 52.448, 277.548 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

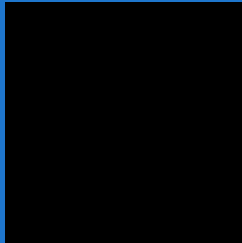
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 49, 52.448, 277.548**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 49, 52.448, 277.548.

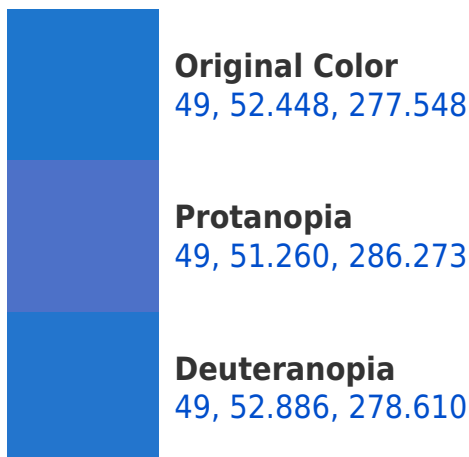


This preview shows how white text looks on a background with the CIELCh color 49, 52.448, 277.548.

# 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**  
49, 29.242, 207.173

# Trichromacy



**Original Color**  
49, 52.448, 277.548

**Protanomaly**  
49, 51.714, 282.250

**Deuteranomaly**  
49, 52.930, 278.418

**Tritanomaly**  
49, 31.480, 241.875

# Monochromacy



**Original Color**  
49, 52.448, 277.548

**Achromatopsia**  
43, 0.006, 296.813

**Achromatomaly**  
44, 21.356, 263.456

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 52.448, 277.548 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(30, 118, 205)` looks like.

```
.text, #text, p{  
    color:rgb(30, 118, 205)  
}
```

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(30, 118, 205) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(30, 118, 205) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 52.448, 277.548 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(30, 118, 205) }
```

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

```
.border{ border-color:rgb(30, 118, 205) }
```

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

Here you see how a box with a 4 pixel `rgb(30, 118, 205)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(30, 118, 205); -webkit-box-  
shadow:4px 4px 4px 4px rgb(30, 118, 205);  
box-shadow:4px 4px 4px 4px rgb(30, 118,  
205) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 52.448, 277.548 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(30, 118, 205) }
```

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

```
.background{ background-color: rgb(30, 118,  
205) }
```

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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