

# Converting Colors

CIELCh(50, 18.750, 270.822)

Have a look what the booklet for  
CIELCh(50, 18.750, 270.822)  
contains.

<b>CIELCh(50, 18.601, 270.691)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# Color

**CIELCh(50, 18.601, 270.691)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	647896
RGB	100, 120, 150
RGB Percent	39%, 47%, 59%
CMY	0.6070, 0.5285, 0.4108
CMYK	0.33, 0.20, 0.00, 0.41
HSL	216°, 20%, 49%
HSV	216°, 33%, 59%
XYZ	17.5478, 18.4187, 31.5837
YIQ	117.4400, -21.5500, 5.0900

# Conversions

## Conversions Part 2

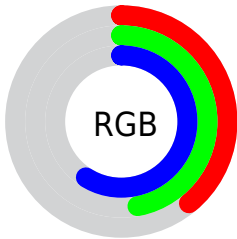
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	100, 114, 150
Decimal	6584470
CIE Lab	50.00, 0.22, -18.60
CIE LCh	50, 18.601, 270.691
Yxy	18.4187, 0.2598, 0.2727
Android (android.graphics.Color)	4284774550 (0xFF647896)
YUV	117.4400, 16.0521, -15.2949
Hunter-Lab	42.9170, -2.1199, -13.5911

# Details

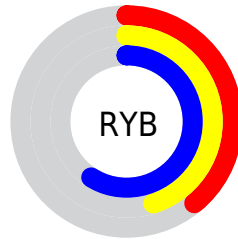
The CIELCh color  $50, 18.601, 270.691$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $56, 19.299, 81.164$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $70, 18.564, 270.675$ , and  $30, 18.383, 270.152$  is the 20% darker color. If you saturate the color by 10%, you get  $46, 24.255, 272.877$ , and if you desaturate by 10%, it is  $54, 12.976, 268.823$ .

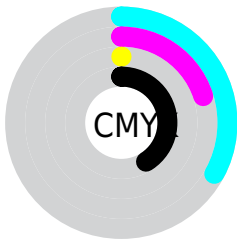
# Distribution



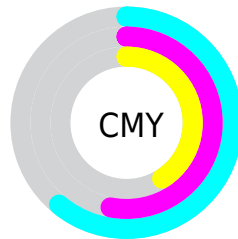
- Red (39%)
- Green (47%)
- Blue (59%)



- Red (39%)
- Yellow (45%)
- Blue (59%)



- Cyan (33%)
- Magenta (20%)
- Yellow (0%)
- Black (41%)




- Cyan (61%)
- Magenta (53%)
- Yellow (41%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 18.601, 270.691 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 50, 18.601, 270.691 by changing the saturation by 10% instead.





 50, 18.601,  
270.691


 50, 18.601,  
270.691


 100, 18.601,  
270.691


 40, 18.601,  
270.691


 70, 18.601,  
270.691

 30, 18.601,  
270.691


 80, 18.601,  
270.691


 20, 18.601,  
270.691

 90, 18.601,  
270.691

 10, 18.601,  
270.691

 0, 18.601, 270.691

 50, 18.601,  
270.691

 50, 18.601,  
270.691

46, 24.255,  
272.877

54, 12.976,  
268.823

43, 29.949,  
275.429

57, 7.383, 267.236

39, 35.705,  
278.373

61, 1.825, 265.960

65, 3.691, 84.585

36, 41.556,  
281.710

68, 9.158, 83.598

33, 47.542,  
285.384

72, 14.570, 82.713

76, 19.920, 81.931

30, 53.680,  
289.267

79, 25.204, 81.238

28, 57.893,  
291.740

83, 30.419, 80.620

# Harmonies

# Complementary

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



50, 18.601, 270.691



56, 19.299, 81.164

# Rectangle

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



50, 18.601, 270.691



50, 18.601, 320.691



50, 18.601, 90.691



50, 18.601, 140.691

# Sweetspot

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



50, 18.600, 270.689



75, 6.906, 266.800



58, 21.964, 166.207



39, 4.750, 266.980



90, 0.011, 296.813



42, 0.006, 296.813



# Same Dimension

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



50, 18.600, 270.689



61, 27.859, 272.305



45, 30.006, 297.468



29, 3.096, 266.663



25, 53.882, 291.407



1, 2.702, 265.431





# Inverse Universe

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



48, 23.418, 352.839



59, 35.090, 353.872



61, 27.741, 111.463



29, 3.816, 350.175



29, 53.521, 10.305

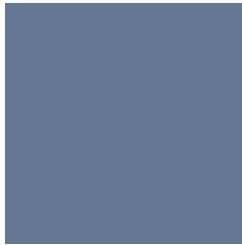


1, 3.291, 349.416



# Previews

## White Background



This preview shows how the CIELCh color 50, 18.601, 270.691 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 50, 18.601, 270.691 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

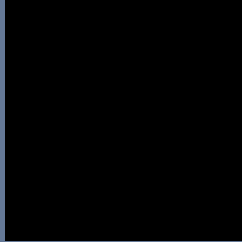
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

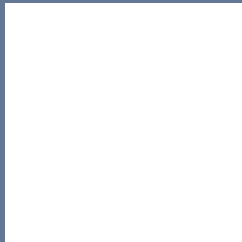
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 50, 18.601, 270.691

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 18.601, 270.691.

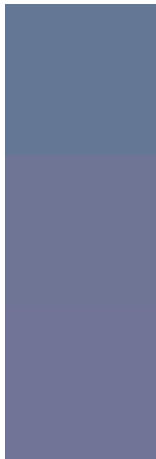


This preview shows how white text looks on a background with the CIELCh color 50, 18.601, 270.691.

# 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

50, 18.601, 270.691

### Protanopia

50, 18.231, 285.780

### Deuteranopia

50, 20.518, 289.840



**Tritanopia**  
50, 11.256, 230.057



# Trichromacy



**Original Color**  
50, 18.601, 270.691

**Protanomaly**  
50, 18.439, 280.402

**Deuteranomaly**  
50, 19.521, 282.327

**Tritanomaly**  
50, 12.889, 249.667

# Monochromacy



**Original Color**  
50, 18.601, 270.691

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 6.916, 268.283

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 18.601, 270.691 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(100, 120, 150)` looks like.

```
.text, #text, p{  
    color:rgb(100, 120, 150)  
}
```

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(100, 120, 150) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 120, 150) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 18.601, 270.691 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(100, 120, 150) }
```

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

```
.border{ border-color:rgb(100, 120, 150) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 120, 150)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 120, 150); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 120, 150);  
box-shadow:4px 4px 4px 4px rgb(100, 120,  
150) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 18.601, 270.691 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 120, 150) }
```

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

```
.background{ background-color: rgb(100,  
120, 150) }
```

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