

# Converting Colors

CIELCh(50, 14.497, 255.145)

Have a look what the booklet for  
CIELCh(50, 14.497, 255.145)  
contains.

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# Color

**CIELCh(50, 14.366, 253.795)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	617A8E
RGB	97, 122, 142
RGB Percent	38%, 48%, 56%
CMY	0.6195, 0.5215, 0.4431
CMYK	0.32, 0.14, 0.00, 0.44
HSL	207°, 19%, 47%
HSV	207°, 32%, 56%
XYZ	16.7766, 18.4187, 28.2685
YIQ	116.8050, -21.3200, 0.9200

# Conversions

## Conversions Part 2

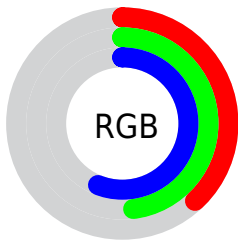
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	97, 113, 142
Decimal	6388366
CIE <sub>Lab</sub>	50.00, -4.01, -13.80
CIE <sub>LCh</sub>	50, 14.366, 253.795
Yxy	18.4187, 0.2643, 0.2902
Android (android.graphics.Color)	4284578446 (0xFF617A8E)
YUV	116.8050, 12.4211, -17.3690
Hunter-Lab	42.9170, -5.3275, -9.0112

# Details

The CIELCh color  $50, 14.366, 253.795$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $51, 16.126, 65.683$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $70, 14.535, 255.341$ , and  $30, 14.688, 255.207$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 18.634, 255.874$ , and if you desaturate by 10%, it is  $53, 9.952, 252.061$ .

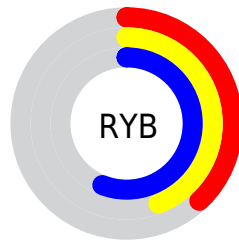
# Distribution



Red (38%)

Green (48%)

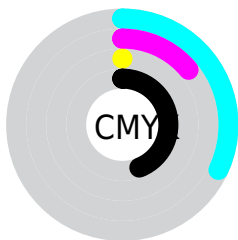
Blue (56%)



Red (38%)

Yellow (44%)

Blue (56%)

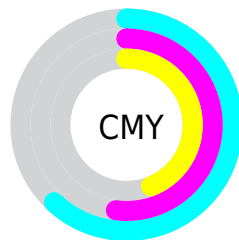


Cyan (32%)

Magenta (14%)

Yellow (0%)

Black (44%)



Cyan (62%)

Magenta (52%)


Yellow (44%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 14.366, 253.795 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, 14.366, 253.795 by changing the saturation by 10% instead.





 50, 14.366,  
253.795


 50, 14.366,  
253.795


 100, 14.366,  
253.795


 40, 14.366,  
253.795


 70, 14.366,  
253.795

 30, 14.366,  
253.795


 80, 14.366,  
253.795


 20, 14.366,  
253.795

 90, 14.366,  
253.795

 10, 14.366,  
253.795

 0, 14.366, 253.795

 50, 14.366,  
253.795

 50, 14.366,  
253.795

47, 18.634,  
255.874

53, 9.952, 252.061

45, 22.739,  
258.367

56, 5.419, 250.633

59, 0.793, 249.756

42, 26.677,  
261.332

61, 3.904, 68.242

39, 30.465,  
264.812

64, 8.646, 67.412

67, 13.417, 66.677

37, 34.150,  
268.806

70, 18.199, 66.038

35, 37.808,  
273.246

73, 22.980, 65.481

76, 27.749, 64.993

33, 40.940,  
276.933

# Harmonies

# Complementary

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



50, 14.366, 253.795



51, 16.126, 65.683

# Rectangle

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



50, 14.366, 253.795



50, 14.366, 303.795



50, 14.366, 73.795



50, 14.366, 123.795

# Sweetspot

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



50, 14.365, 253.792



71, 5.727, 250.447



55, 22.814, 157.480



37, 3.889, 250.601



88, 0.010, 296.813



39, 0.006, 296.813



# Same Dimension

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



50, 14.365, 253.792



61, 21.036, 255.231



44, 25.216, 291.342



29, 2.637, 250.323



31, 39.333, 276.690



1, 1.796, 249.180





# Inverse Universe

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



47, 23.257, 343.459



57, 34.351, 344.198



57, 23.641, 104.201



28, 4.103, 341.432



29, 53.804, 355.817

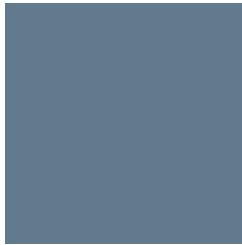


1, 2.745, 340.770



# Previews

## White Background



This preview shows how the CIE LCh color 50, 14.366, 253.795 looks on a white background.

## Color Contrast Check

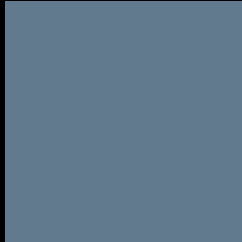
Large Text (above 18pt) WCAG AA ✓ Pass

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 50, 14.366, 253.795 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

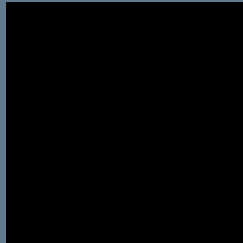
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

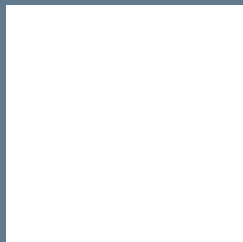
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 50, 14.366, 253.795**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 14.366, 253.795.



This preview shows how white text looks on a background with the CIELCh color 50, 14.366, 253.795.

# 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, 14.366, 253.795

### Protanopia

50, 12.320, 286.568

### Deuteranopia

50, 15.865, 294.870



**Tritanopia**  
50, 11.542, 229.166



# Trichromacy



**Original Color**  
50, 14.366, 253.795

**Protanomaly**  
50, 12.819, 273.515

**Deuteranomaly**  
50, 14.846, 280.807

**Tritanomaly**  
50, 12.112, 237.753

# Monochromacy



**Original Color**  
50, 14.366, 253.795

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
50, 5.312, 249.921

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 14.366, 253.795 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(97, 122, 142)` looks like.

```
.text, #text, p{  
    color:rgb(97, 122, 142)  
}
```

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(97, 122, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 122, 142) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 14.366, 253.795 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(97, 122, 142) }
```

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

```
.border{ border-color:rgb(97, 122, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(97, 122, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 122, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 122, 142);  
box-shadow:4px 4px 4px 4px rgb(97, 122,  
142) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 14.366, 253.795 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 122, 142) }
```

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

```
.background{ background-color: rgb(97, 122,  
142) }
```

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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