

# Converting Colors

CIELCh(50, 26.920, 252.641)

Have a look what the booklet for  
CIELCh(50, 26.920, 252.641)  
contains.

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# Color

**CIELCh(50, 26.920, 252.476)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	417DA2
RGB	65, 125, 162
RGB Percent	25%, 49%, 64%
CMY	0.7448, 0.5096, 0.3645
CMYK	0.60, 0.23, 0.00, 0.36
HSL	203°, 43%, 45%
HSV	203°, 60%, 64%
XYZ	16.0522, 18.4187, 36.9194
YIQ	111.2780, -47.6370, -1.2130

# Conversions

## Conversions Part 2

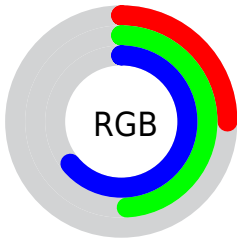
Format	Color
R <sub>Y</sub> B	65, 102, 162
Decimal	4292002
CIE Lab	50.00, -8.11, -25.67
CIE LCh	50, 26.920, 252.476
Yxy	18.4187, 0.2249, 0.2580
Android (android.graphics.Color)	4282482082 (0xFF417DA2)
YUV	111.2780, 25.0059, -40.5858
Hunter-Lab	42.9170, -8.3405, -20.9624

# Details

The CIELCh color **50, 26.920, 252.476** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **49, 36.853, 56.508**, and the grayscale version is **47, 0.006, 296.813**.

A 20% lighter version of the original color is **70, 26.792, 251.892**, and **30, 26.149, 255.167** is the 20% darker color. If you saturate the color by 10%, you get **48, 30.489, 255.831**, and if you desaturate by 10%, it is **53, 23.057, 249.682**.

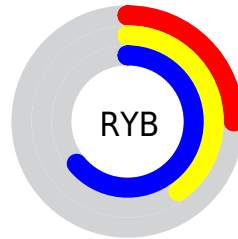
# Distribution



Red (25%)

Green (49%)

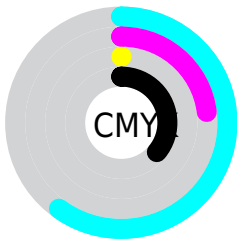
Blue (64%)



Red (25%)

Yellow (40%)

Blue (64%)

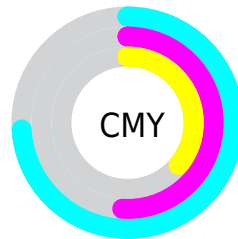


Cyan (60%)

Magenta (23%)

Yellow (0%)

Black (36%)



Cyan (74%)

Magenta (51%)


Yellow (36%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 26.920, 252.476 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, 26.920, 252.476 by changing the saturation by 10% instead.





 50, 26.920,  
252.476


 50, 26.920,  
252.476


 100, 26.920,  
252.476


 40, 26.920,  
252.476


 70, 26.920,  
252.476

 30, 26.920,  
252.476


 80, 26.920,  
252.476


 20, 26.920,  
252.476

 90, 26.920,  
252.476

 10, 26.920,  
252.476

 0, 26.920, 252.476

 50, 26.920,  
252.476

 50, 26.920,  
252.476

48, 30.489,  
255.831

53, 23.057,  
249.682

45, 33.805,  
259.784

55, 18.899,  
247.382

43, 36.953,  
264.305

58, 14.469,  
245.502

41, 40.104,  
269.089

61, 9.804, 243.972

41, 40.154,  
269.159

64, 4.943, 242.746

67, 0.073, 56.273

70, 5.206, 60.692

73, 10.425, 60.014

76, 15.702, 59.427

# Harmonies

# Complementary

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



50, 26.920, 252.476



49, 36.853, 56.508

# Rectangle

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



50, 26.920, 252.476



50, 26.920, 302.476



50, 26.920, 72.476



50, 26.920, 122.476

# Sweetspot

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



50, 26.919, 252.476



78, 11.078, 243.768



60, 48.776, 150.945



41, 7.722, 244.151



93, 0.011, 296.813



45, 0.006, 296.813



# Same Dimension

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



50, 26.919, 252.476



60, 38.639, 257.155



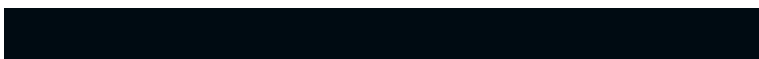
36, 51.809, 294.198



33, 2.858, 242.686



37, 36.826, 268.646



3, 4.612, 248.467





# Inverse Universe

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



43, 48.953, 343.316



51, 69.129, 345.281



61, 45.550, 97.622



32, 4.793, 338.414



31, 58.189, 350.723



1, 7.102, 340.467



# Previews

## White Background



This preview shows how the CIE LCh color 50, 26.920, 252.476 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, 26.920, 252.476 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

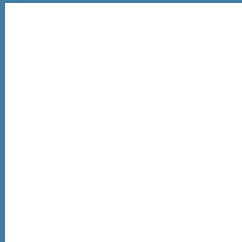
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 50, 26.920, 252.476**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 26.920, 252.476.

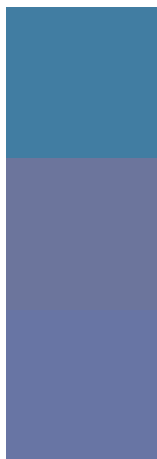


This preview shows how white text looks on a background with the CIELCh color 50, 26.920, 252.476.

# 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, 26.920, 252.476

### Protanopia

50, 22.948, 285.365

### Deuteranopia

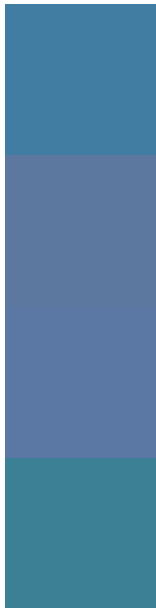
50, 27.681, 284.790



**Tritanopia**  
50, 23.229, 213.538



# Trichromacy



**Original Color**  
50, 26.920, 252.476

**Protanomaly**  
50, 23.639, 270.332

**Deuteranomaly**  
50, 26.452, 272.315

**Tritanomaly**  
50, 23.262, 228.131

# Monochromacy



**Original Color**  
50, 26.920, 252.476

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
48, 11.314, 246.024

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 26.920, 252.476 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(65, 125, 162)` looks like.

```
.text, #text, p{  
    color:rgb(65, 125, 162)  
}
```

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(65, 125, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 125, 162) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 26.920, 252.476 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(65, 125, 162) }
```

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

```
.border{ border-color:rgb(65, 125, 162) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 125, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 125, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 125, 162);  
box-shadow:4px 4px 4px 4px rgb(65, 125,  
162) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 26.920, 252.476 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 125, 162) }
```

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

```
.background{ background-color: rgb(65, 125,  
162) }
```

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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