

# Converting Colors

CIELCh(42, 46.177, 290.600)

Have a look what the booklet for  
CIELCh(42, 46.177, 290.600)  
contains.

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# Color

**CIELCh(42, 46.422, 290.793)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4D5EAB
RGB	77, 94, 171
RGB Percent	30%, 37%, 67%
CMY	0.6984, 0.6317, 0.3298
CMYK	0.55, 0.45, 0.00, 0.33
HSL	229°, 38%, 49%
HSV	229°, 55%, 67%
XYZ	14.3886, 12.5000, 40.1332
YIQ	97.6950, -34.8490, 20.3430

# Conversions

## Conversions Part 2

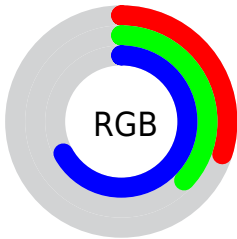
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	77, 91, 171
Decimal	5070507
CIE <sub>Lab</sub>	42.00, 16.48, -43.40
CIE <sub>LCh</sub>	42, 46.422, 290.793
Yxy	12.5000, 0.2147, 0.1865
Android (android.graphics.Color)	4283260587 (0xFF4D5EAB)
YUV	97.6950, 36.1394, -18.1495
Hunter-Lab	35.3553, 10.7727, -42.5536

# Details

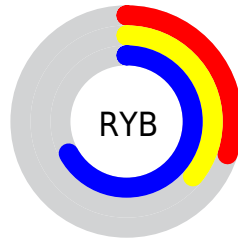
The CIELCh color `42, 46.422, 290.793` is a dark color, and the websafe version is hex `3366CC`. A complement of this color would be `64, 42.341, 95.169`, and the grayscale version is `41, 0.006, 296.813`.

A 20% lighter version of the original color is `62, 46.558, 290.735`, and `22, 46.027, 290.478` is the 20% darker color. If you saturate the color by 10%, you get `37, 55.832, 293.373`, and if you desaturate by 10%, it is `47, 37.325, 288.506`.

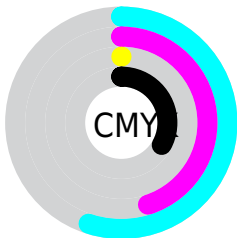
# Distribution



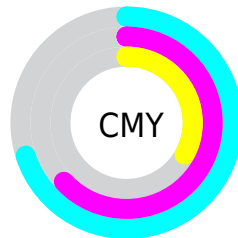
- Red (30%)
- Green (37%)
- Blue (67%)



- Red (30%)
- Yellow (36%)
- Blue (67%)



- Cyan (55%)
- Magenta (45%)
- Yellow (0%)
- Black (33%)




- Cyan (70%)
- Magenta (63%)
- Yellow (33%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 46.422, 290.793 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 42, 46.422, 290.793 by changing the saturation by 10% instead.





 42, 46.422,  
290.793


 42, 46.422,  
290.793


 100, 46.422,  
290.793


 32, 46.422,  
290.793

 62, 46.422,  
290.793


 22, 46.422,  
290.793

 72, 46.422,  
290.793

 12, 46.422,  
290.793

 82, 46.422,  
290.793

 2, 46.422, 290.793

 92, 46.422,  
290.793

 0, 46.422, 290.793

 42, 46.422,

 42, 46.422,

290.793

■ 37, 55.832,  
293.373

■ 33, 65.472,  
296.175

■ 28, 75.067,  
299.051

■ 25, 84.026,  
301.759

■ 23, 88.034,  
302.893

290.793

■ 47, 37.325,  
288.506

■ 52, 28.548,  
286.518

■ 57, 20.068,  
284.809

■ 62, 11.860,  
283.349

■ 67, 3.901, 282.115

■ 72, 3.826, 100.968

■ 78, 11.334,  
100.057

■ 83, 18.637, 99.251

■ 87, 25.743, 98.544



# Harmonies

# Complementary

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



42, 46.422, 290.793



64, 42.341, 95.169

# Rectangle

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



42, 46.422, 290.793



42, 46.422, 340.793



42, 46.422, 110.793



42, 46.422, 160.793

# Sweetspot

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



42, 46.421, 290.794



78, 16.674, 283.664



64, 32.087, 179.187



40, 11.275, 283.939



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



42, 46.421, 290.794



47, 70.354, 293.965



40, 57.485, 306.460



34, 4.492, 282.618



20, 79.467, 302.635



1, 9.725, 283.378



# Inverse Universe

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



45, 41.186, 12.652



54, 61.050, 16.100



66, 51.023, 119.510



34, 3.922, 5.488



31, 62.941, 29.904

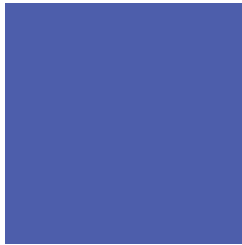


2, 8.001, 7.323



# Previews

## White Background



This preview shows how the CIELCh color 42, 46.422, 290.793 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 42, 46.422, 290.793 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

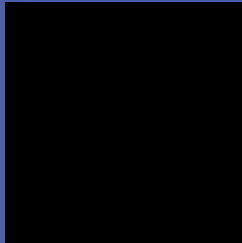
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 42, 46.422, 290.793

## Background



This preview shows how black text looks on a background with the CIELCh color 42, 46.422, 290.793.



This preview shows how white text looks on a background with the CIELCh color 42, 46.422, 290.793.

# 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

42, 46.422, 290.793

### Protanopia

42, 46.661, 286.471

### Deuteranopia

42, 42.709, 278.140





**Tritanopia**  
42, 17.662, 213.577

# Trichromacy



**Original Color**  
42, 46.422, 290.793

**Protanomaly**  
42, 46.565, 288.134

**Deuteranomaly**  
42, 43.973, 282.612

**Tritanomaly**  
42, 22.695, 261.055

# Monochromacy



**Original Color**  
42, 46.422, 290.793

**Achromatopsia**  
42, 0.006, 296.813

**Achromatomaly**  
42, 17.075, 284.101

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 42, 46.422, 290.793 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(77, 94, 171)` looks like.

```
.text, #text, p{  
    color:rgb(77, 94, 171)  
}
```

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(77, 94, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 94, 171) }
```

## Border

The CSS property to change the border of an element to CIELCh 42, 46.422, 290.793 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(77, 94, 171) }
```

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

```
.border{ border-color:rgb(77, 94, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 94, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 94, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 94, 171);  
box-shadow:4px 4px 4px 4px rgb(77, 94,  
171) }
```

# Background

The CSS property to change the background color of an element to CIELCh 42, 46.422, 290.793 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 94, 171) }
```

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

```
.background{ background-color: rgb(77, 94,  
171) }
```

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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