

# Converting Colors

CIELCh(46, 60.965, 22.683)

Have a look what the booklet for  
CIELCh(46, 60.965, 22.683) contains.

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**Color**

**CIELCh(46, 60.728, 22.774)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C53949
RGB	197, 57, 73
RGB Percent	77%, 22%, 29%
CMY	0.2276, 0.7766, 0.7138
CMYK	0.00, 0.71, 0.63, 0.23
HSL	353°, 55%, 50%
HSV	353°, 71%, 77%
XYZ	25.6793, 15.2687, 7.8921
YIQ	100.6840, 78.3040, 34.6560

# Conversions

## Conversions Part 2

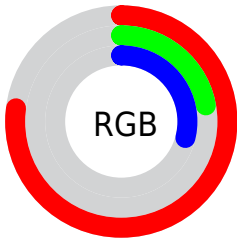
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	197, 57, 73
Decimal	12925257
CIE Lab	46.00, 55.99, 23.51
CIE LCh	46, 60.728, 22.774
Yxy	15.2687, 0.5258, 0.3126
Android (android.graphics.Color)	4291115337 (0xFFC53949)
YUV	100.6840, -13.6482, 84.4691
Hunter-Lab	39.0751, 48.9247, 15.3776

# Details

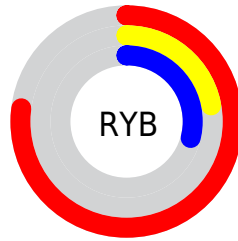
The CIELCh color **46, 60.728, 22.774** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark muted red. A complement of this color would be **72, 40.371, 183.824**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 59.242, 22.549**, and **28, 56.797, 26.317** is the 20% darker color. If you saturate the color by 10%, you get **43, 68.684, 26.784**, and if you desaturate by 10%, it is **49, 52.091, 19.507**.

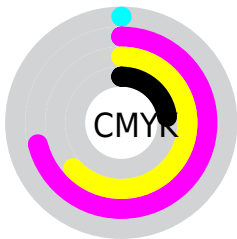
# Distribution



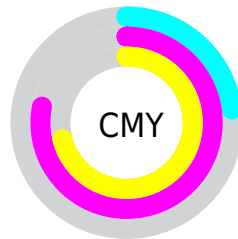
- Red (77%)
- Green (22%)
- Blue (29%)



- Red (77%)
- Yellow (22%)
- Blue (29%)



- Cyan (0%)
- Magenta (71%)
- Yellow (63%)
- Black (23%)



- Cyan (23%)
- Magenta (78%)
- Yellow (71%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 60.728, 22.774 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 46, 60.728, 22.774 by changing the saturation by 10% instead.



 46, 60.728, 22.774

 46, 60.728, 22.774

 100, 60.728,  
22.774

 36, 60.728, 22.774

 66, 60.728, 22.774

 26, 60.728, 22.774

 76, 60.728, 22.774

 16, 60.728, 22.774

 86, 60.728, 22.774

 6, 60.728, 22.774

 96, 60.728, 22.774

 0, 60.728, 22.774

 46, 60.728, 22.774

 46, 60.728, 22.774

 43, 68.684, 26.784

 49, 52.091, 19.507

 42, 75.730, 31.366

 53, 43.072, 16.919

41, 81.133, 35.297

58, 33.979, 14.882

63, 25.070, 13.268

68, 16.517, 11.968

73, 8.414, 10.887

79, 0.793, 9.415

84, 6.350, 189.430

90, 13.042,  
188.761

# Harmonies

# Complementary

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



46, 60.728, 22.774



72, 40.371, 183.824

# Rectangle

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



46, 60.728, 22.774



46, 60.728, 72.774



46, 60.728, 202.774



46, 60.728, 252.774

# Sweetspot

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



46, 60.725, 22.776



86, 20.313, 11.998



48, 82.567, 324.016



44, 13.865, 12.338



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



46, 60.725, 22.776



55, 88.057, 29.135



56, 52.992, 55.766



39, 4.320, 10.718



34, 70.036, 34.624



3, 15.992, 13.500





# Inverse Universe

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



46, 60.725, 22.776



55, 88.057, 29.135



57, 36.200, 256.935



39, 4.320, 10.718



34, 70.036, 34.624



3, 15.992, 13.500



# Previews

## White Background



This preview shows how the CIELCh color 46, 60.728, 22.774 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 46, 60.728, 22.774 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 46, 60.728, 22.774**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 46, 60.728, 22.774.



This preview shows how white text looks on a background with the CIELCh color 46, 60.728, 22.774.

# 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

46, 60.728, 22.774

### Protanopia

46, 8.665, 91.645

### Deuteranopia

46, 26.749, 77.258



**Tritanopia**  
46, 62.015, 28.891



# Trichromacy



**Original Color**  
46, 60.728, 22.774

**Protanomaly**  
44, 24.941, 26.814

**Deuteranomaly**  
45, 34.859, 41.664

**Tritanomaly**  
46, 61.390, 26.596

# Monochromacy



**Original Color**  
46, 60.728, 22.774

**Achromatopsia**  
43, 0.006, 296.813

**Achromatomaly**  
42, 22.679, 13.828

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 60.728, 22.774 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(197, 57, 73)` looks like.

```
.text, #text, p{  
    color:rgb(197, 57, 73)  
}
```

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(197, 57, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(197, 57, 73) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 60.728, 22.774 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(197, 57, 73) }
```

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

```
.border{ border-color:rgb(197, 57, 73) }
```

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

Here you see how a box with a 4 pixel `rgb(197, 57, 73)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(197, 57, 73); -webkit-box-  
shadow:4px 4px 4px 4px rgb(197, 57, 73);  
box-shadow:4px 4px 4px 4px rgb(197, 57,  
73) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 60.728, 22.774 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(197, 57, 73) }
```

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

```
.background{ background-color: rgb(197, 57,  
73) }
```

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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